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SERIES 1

APRIL, 1913

VOL. VIII, No. 1

CENTRAL UNIVERSITY OF KENTUCKY

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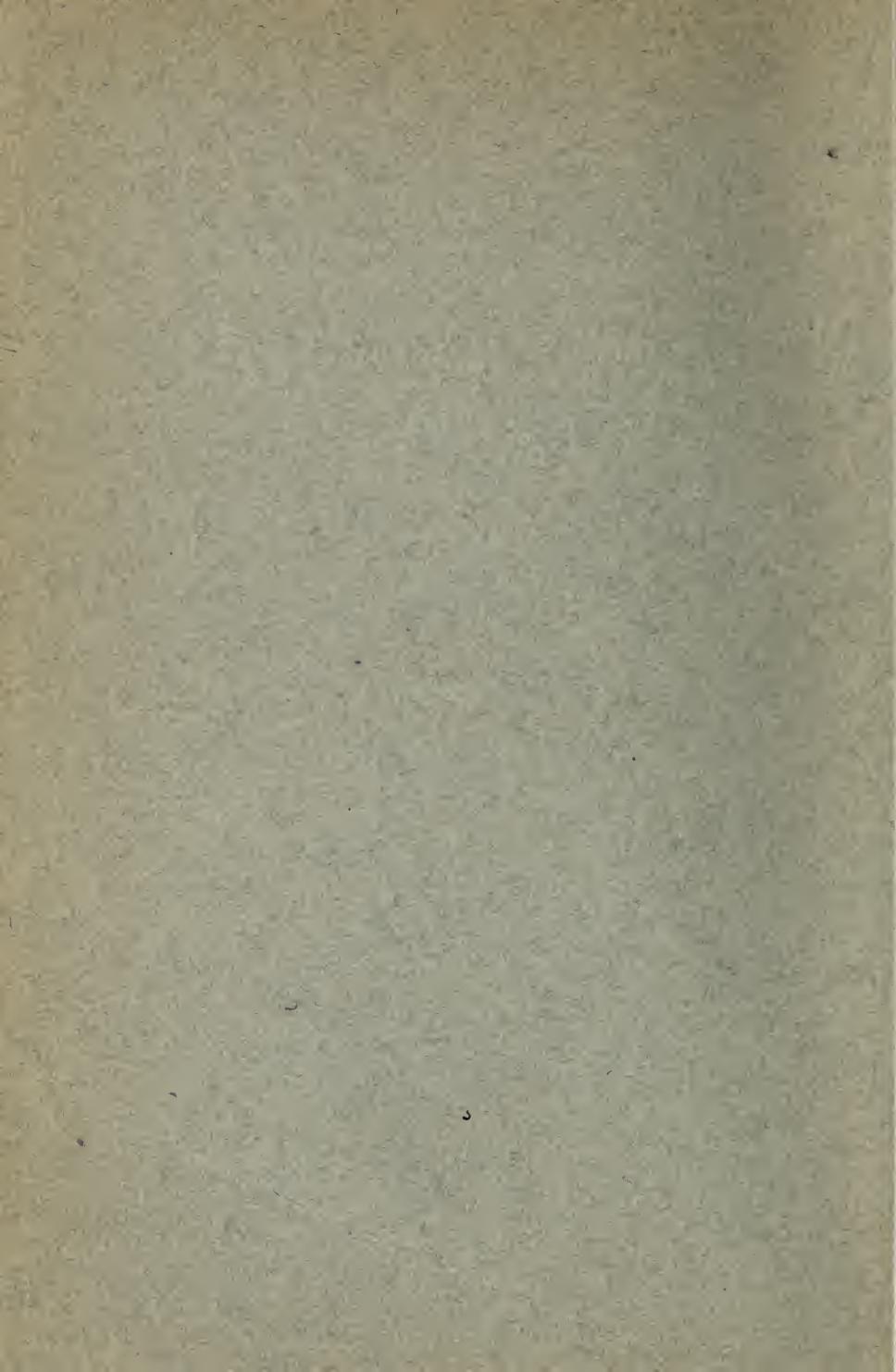
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CATALOGUE OF THE CENTRE COLLEGE

1912-1913

Published Quarterly by Central University of Kentucky
Danville, Kentucky

Entered March 24, 1905, at Danville, Ky., as second class matter, under
Act of Congress of July 16, 1894



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CORRESPONDENCE

1. Requests for Catalogues and other publications of the University should be addressed to the President.

2. Inquiries concerning Entrance Requirements should be addressed to the President.

3. Applications for Scholarships should be made to the President.

4. Correspondence in regard to general matters of business should be addressed to Central University.

Doctor John C. Fales is engaged in the preparation of a new edition of the General Catalogue and any information which any alumnus may be able to give concerning either himself or other alumni will be greatly appreciated. Such information should be sent to Doctor Fales.

HISTORICAL SKETCH.

Central University of Kentucky as at present constituted is the result of a union in 1901 of Centre College at Danville and the Central University of Kentucky at Richmond. This union might more accurately be termed a reunion, for the separate colleges at Danville and at Richmond were the results of a division of the Presbyterian Church into the two synods, and the unification of the two colleges in 1901 was a return to the original plan. This historical sketch, therefore, must first deal with Centre College up to 1874, the date at which a separate institution was founded at Richmond, with the Centre College and the Central University as separate organizations from 1874 to 1901; and finally with the reunited institutions from 1901 to the present time.

Although the Centre College entered upon its corporate life in 1819, the seed from which the life developed must be sought forty years earlier. Formal education in Kentucky began in 1780, when the Legislature of Virginia granted a charter and 10,000 acres of land to a school to be established in the province of Kentucky. In accordance with this act, Transylvania Academy was opened in Danville in 1785. It was moved to the larger town of Lexington in 1788. The leaders in the securing of the charter were Presbyterians, and the teacher, both at Danville and at Lexington, was a Presbyterian minister. When, therefore, in 1794 this teacher was ejected and a man of a different denomination installed, the Presbytery

of Transylvania felt that it had been unjustly treated, and proceeded immediately, with contributions of money from Kentucky and the East, to found an institution at Pisgah under the name of Kentucky Seminary. About \$15,000 was raised, among the contributors of which were George Washington and John Adams, each of whom gave one hundred dollars. The seminary grew rapidly. In a short time, after overtures from the older academy, the two were united under the name of Transylvania University. By 1817 Transylvania University had gradually passed from Presbyterian control. It was then that the Presbyterians of Kentucky sought a charter for Centre College, to renew in Danville the first educational foundation made in the state. The Legislature granted a charter in 1819. At first the college was a state institution, though the board of trustees was mainly Presbyterian. The first class was graduated in 1824. The eleven years (1819 to 1830) during which the College was in a greater or less degree under state control were characterized by frequent administrative changes, no fewer than four persons filling the office of president. Only two of these, however, were regularly elected presidents—the Rev. Jeremiah Chamberlain, D. D., and the Rev. Gideon Blackburn, D. D. No graduating class numbered more than five men. As the institution was in financial distress, the legislature finally granted to the synod of Kentucky the right to select the trustees of the College, on condition that the synod raise a permanent endowment for the institution of \$20,000. This condition was met in 1830.

A period of progress and strength for Centre College now began. During the presidency of the Rev. John Clark Young, D. D. (1830-1857) the permanent endow-

ment was increased to more than \$100,000; the equipment was improved; the number of students became nearly two hundred; and Centre College took a position of educational leadership. In 1857, Dr. Young died. His successor as President was the Rev. Lewis W. Green, D. D., one of the two members of the class of 1824, the first graduating class of the College. Dr. Green continued as President until his death in 1863. In the meantime the Civil War had come on and the fortunes of the College were considerably shaken.

Following the separation of the Presbyterian Church into the two bodies, generally known as the Northern and the Southern Presbyterian Churches, the Central University of Kentucky was organized under a charter granted by the Legislature of Kentucky, March 3, 1873, providing for the establishment of an institution under the auspices of the southern synod of Kentucky. The College of Philosophy, Letters and Science, at Richmond, and the Hospital College of Medicine at Louisville, were opened for students in 1874. The Louisville College of Dentistry was organized and opened at Louisville in January, 1888, and the College of Law at Richmond in October, 1898. The government of the University was vested in a Chancellor as chief executive officer, and a Board of Curators, elected at first by the Alumni Association, but afterwards by the Synod of Kentucky. The Rev. Robert L. Breck, D. D., was the first Chancellor, and the Rev. John W. Pratt, D. D., the first President of the faculty. In June of 1880, Dr. Breck and Dr. Pratt resigned and the University was reorganized. The Rev. L. H. Blanton, D. D., was elected Chancellor and the Rev. J. V. Logan, D. D., President of the faculty, and both continued in office until the consolidation in 1901, with Centre College.

Centre College—to the history of which we now return—gradually repaired its broken energies after the close of the war. Upon the resignation of Dr. William L. Breckinridge as President in 1868, Ormond Beatty, LL. D., of the class of 1835, who had been a professor in the College since 1836, became the President. He remained in executive charge until his resignation in 1888. The Rev. William Clark Young, D. D., of the class of 1859, then entered into a short, but successful period as chief executive. During the incumbency of Dr. Young, the financial resources of Centre College were materially increased, the equipment was added to, and the student enrollment became greater than it had ever been before. A Law Department was, in 1894, opened under the name of the Danville College of Law. Dr. Young died in 1896.

After an interval of nearly two years, during which Prof. John C. Fales, LL. D., Dean of the College, acted as President, the Rev. William Charles Roberts, D. D., LL. D., was in 1898, chosen President. In August, 1901, Centre College and the Central University of Kentucky were consolidated under the corporate name of "Central University of Kentucky," the seat of which was fixed at Danville. The College of Liberal Arts, which is still called Centre College, and the College of Law, at Danville, and the Hospital College of Medicine and the Louisville College of Dentistry at Louisville were the parts of the amalgamated institution. In 1908, the College of Medicine united with three other medical schools in Louisville and ceased to be a part of Central University.

Dr. Roberts died in 1903. Since April, 1904, the Rev. Frederick W. Hinitt, Ph. D., D. D., has been the executive head of the institution. A recent event of importance was

the placing of Centre College, in 1908, on the list of the accepted institutions of the Carnegie Foundation for the Advancement of Teaching. Since 1907, Central University has been governed by a self perpetuating Board of Trustees, composed of twenty-four members.

At the close of the eighty-ninth commencement in 1912, the institution had granted degrees to 1898 Bachelors of Arts, or of Science. A gratifyingly large number of the alumni have attained prominence in the various walks of life. Among these have been six moderators of the General Assembly of the Presbyterian Church of the United States, five United States Senators, two Vice Presidents of the United States, one Justice of the Supreme Court of the United States, a number of governors of states, and more than a score of presidents of colleges.

CENTRAL UNIVERSITY OF KENTUCKY

OFFICERS

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President of the University

J. A. CHEEK, Esq.

Treasurer

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REV. W. C. CONDIT, D. D., A. J. A. ALEXANDER, M. D.

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President of the University

JOHN W. REDD, A. M., LL. D.

Dean of Centre College

JOHN ADAMSON CHEEK, Esq.

Treasurer

KATE HINITT,

Assistant Treasurer

CHARLES GRAHAM CROOKS, A. M.

Registrar

FRIEND EBENEZER CLARK, PH. D.

Secretary of the Faculty of Centre College

THE CENTRE COLLEGE
OF KENTUCKY

Calendar 1913

JANUARY							FEBRUARY							MARCH							APRIL									
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Calendar 1914

JANUARY							FEBRUARY							MARCH							APRIL							
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THE CENTRE COLLEGE OF KENTUCKY

CALENDAR

1913.

FEBRUARY 3	Second semester begins. Registration of students.
FEBRUARY 13	} Prayer for Colleges.
FEBRUARY 16	
FEBRUARY 22	Washington's Birthday.
MAY 3	Last day for receiving theses of candidates for the degree of Master of Arts.
JUNE 2-7	Final examinations.
JUNE 8	Baccalaureate Sermon, 11 A. M.
JUNE 8	Address before Young Men's Christian Association, 8 P. M.
JUNE 9	Annual Oratorical Contest, 8 P. M.
JUNE 10	Meeting of Trustees, 9:30 A. M.
JUNE 10	Class-day Exercises, 10 A. M.
JUNE 11	Ninetieth Annual Commencement, 10 A. M.
JUNE 12	Summer vacation begins.
SEPTEMBER 10	First semester begins. Examination and registration of students.
SEPTEMBER 30	Last day for registration of graduate students.
NOVEMBER 26	Noon. Thanksgiving recess begins.
DECEMBER 20	Christmas recess begins.

1914.

JANUARY 6	Recitations resumed.
JANUARY 26-31	Semester examinations.
FEBRUARY 2	Second semester begins.

FEBRUARY 12 }
FEBRUARY 15 }

Prayer for Colleges.

FEBRUARY 22

Washington's Birthday.

APRIL 11-14

Spring recess.

JUNE 10

Ninety-first Annual Commencement.

THE CENTRE COLLEGE OF KENTUCKY

FACULTY

FREDERICK WILLIAM HINITT, PH. D., D. D.	
<i>President; Professor of Philosophy</i>	President's House
JOHN W. REDD, A. M., LL. D.	243 N. Third Street
<i>Dean; Professor of Greek Language and Literature</i>	
JOHN CILLEY FALES, A. M., LL. D.	141 Fifth Street
<i>Librarian; Professor of Geology and Biology, Emeritus</i>	
ALFRED BRIERLY NELSON, A. M., M. D.	
<i>Professor of Mathematics, Emeritus</i>	413 W. Lexington Street
SAMUEL ROBERTSON CHEEK, A. M.	120 E. Lexington Street
<i>Professor of Latin Language and Literature</i>	
CHARLES GRAHAM CROOKS, A. M.	346 N. First Street
<i>Henry Bell Walters Professor of Mathematics</i>	
FRIEND EBENEZER CLARK, PH. D.	401 Maple Avenue
<i>Professor of Chemistry; Secretary of the Faculty</i>	
FRANK LEWIS RAINEY, S. B.	424 W. Broadway
<i>Professor of Biology and Geology</i>	
NEWLAND FARNSWORTH SMITH, PH. D.	401 Maple Avenue
<i>Professor of Physics</i>	
DANIEL LINDSEY THOMAS, PH. D.	223 N. Fourth Street
<i>Professor of English</i>	
PERCY SCOTT FLIPPIN, PH. D.	152 N. Third Street
<i>Professor of History and Economics</i>	
PETER CLAASSEN, PH. D.	312 Maple Avenue
<i>Professor of Modern Languages</i>	
CHARLES O'BRIEN, A. B., LL. B.	Gilcher Hotel
<i>Instructor in Physical Culture</i>	

GIFFORD DAVIDSON COLLINS, A. B.

Breckinridge Hall

Fellow, and Preceptor in German

EMILE BEATTY

Breckinridge Hall

Assistant in Library

STANDING COMMITTEES OF THE FACULTY

The President of the University is ex-officio member of all Committees.

UNDERGRADUATE STUDIES

PROFESSORS REDD, RAINEY, CHEEK, CROOKS.

GRADUATE STUDIES

PROFESSORS CLARK, CLAASSEN, THOMAS.

STUDENT ATHLETICS

PROFESSORS RAINEY, FLIPPIN, CHEEK.

STUDENT ORGANIZATIONS AND PUBLICATIONS

PROFESSORS THOMAS, RAINEY, CHEEK.

PUBLIC FUNCTIONS AND CONTESTS

PROFESSORS THOMAS, FLIPPIN, SMITH.

PUBLICATION

PROFESSORS CROOKS, RAINEY, SMITH.

CONFERENCE

PROFESSORS CHEEK, CROOKS, CLARK.

SCHEDULE

PROFESSORS SMITH, CLARK, THOMAS.

LECTURE COURSES

PROFESSORS RAINEY, REDD, CLAASSEN.

ACCREDITED SCHOOLS

PROFESSORS CROOKS, CLAASSEN, SMITH.

HONORARY DEGREES

PROFESSORS REDD, CLARK, RAINEY.

RELIGIOUS WORK

PROFESSORS FLIPPIN, SMITH, CROOKS.

CLASS ADVISERS

The system of class advisers has been organized to facilitate the registration of students, to guide the student in the choice and organization of his scheme of elective studies, and to bring each student of the college into close touch with the staff of instructors.

The Registrar will invariably act as class adviser for the Freshman Class.

During the first week in February of each year the Freshman Class will have the privilege of electing from the members of the Faculty the class adviser who will continue to serve the class in that capacity until the graduation of the class.

GENERAL INFORMATION

LOCATION

ADVANTAGES OF LOCATION

Danville, the seat of the College is situated on the main line of the Queen & Crescent Railroad, extending with its leased lines from Cincinnati to New Orleans, and is the terminus of the Louisville division of the Southern Railway; it is also near the Lebanon and Knoxville branch of the Louisville and Nashville Railroad, and is easily accessible from all quarters. Danville is very near the geographical center of the State, within the "Blue Grass" region, and is surrounded by beautiful and fertile country. It has an elevation of about one thousand feet above the level of the sea, and the surrounding country is undulating so as to afford perfect drainage. Probably no healthier spot can be found within the limits of the State. Malaria is unknown except when brought in from other sections of the country. This small city of about 5,500 inhabitants is noted for its high moral tone, and for the refinement and intelligence of its people. It has long been the seat of important educational institutions for both men and women. The town has strong churches of all leading denominations, and the people are church-going. *There are in the town no licensed saloons for the sale of intoxicating liquors.* The saloons were closed many years since by the Trustees under the instruction of a decided vote of the people, and a special act of the Legislature makes it unlawful to retail liquor within two miles of the city limits.

ACCESSIBILITY

The way to reach Danville is via the trunk line known as the Queen & Crescent Route, or by the Southern Railway from Louisville and intervening and connecting points. Solid vestibuled trains via the Q. & C. run from New Orleans, Meridian, Birmingham and

Chattanooga to Danville without change. There are eighteen passenger trains daily between Danville, Lexington, Louisville and Cincinnati.

BOARDING AND DORMITORY FACILITIES

BOARDING

Many of the students live in private families, in which they enjoy the advantage of a Christian home. Here the rates for board and room range from \$5.00 to \$6.00 per week.

The provision of good board for those who, on account of limited means, are not able to pay these prices, has been felt to be one of the most pressing needs of the College. This need has been largely met. Good board is now furnished in a boarding house under College supervision at \$3.50 per week.

COOPERATIVE BOARDING CLUB

A cooperative club managed by students selected by the Faculty has been in successful operation for a number of years. This club has quarters in the Old College building. The price and quality of board are regulated by the members. For the present year the price of board has been \$2.75 per week.

BRECKINRIDGE HALL

This building furnishes dormitory facilities of the most modern type, with every convenience that such a building should have. It is divided into two halls, known as East Breckinridge and West Breckinridge. Each hall is complete in itself. The number of single rooms has been increased, while a sufficient number of suites are provided to meet the needs of students who desire to be together. The building is steam heated throughout, while ample facilities for bathing and all toilet necessities are found on each side. Gas and electricity are installed for lighting, and either can be used at the option of the resident.

The addition of a hospital room for non-infectious diseases, with private bath room attached, to be used at the command of a physician, furnishes a suitable equipment, both sanitary and comfortable, in the case of students who may be confined to the hall by minor ailments.

The janitor service of the dormitory includes the care of rooms, making of beds and all necessary attention.

The rooms are newly furnished. The furniture includes single iron beds with springs and mattress, table, chairs, dresser, and washstand. All earthenware goods will be furnished by the occupant of the room, as also rugs, curtains, bed linen, and covers, pillows, etc.

Students rooming in Breckinridge Hall are required to make a deposit of \$5.00 to cover damages to room or furniture. What remains of the deposit after paying for the damage done, will be refunded at the close of the year.

RENTAL OF ROOMS

Rates for rooms vary according to size and location, and include light, heat, and janitor service. An illustrated circular with floor plans will be sent upon request.

SINGLE ROOMS

Nos. 27, 31, 34.....	\$45.00
Nos. 1, 7, 9, 10, 11, 12, 13, 14, 17, 19, 21, 23, 25, 29, 32, 33.....	50.00

DOUBLE ROOMS

(Room With Two Single Beds.)

Nos. 20, 30.....	\$30.00 double	50.00 single
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SUITES

(Study and Two Bed Rooms.)

Nos. 2, 3, 4, 5, 6, 8, 15,	
18, 22, 28.....	\$50.00 for each occupant
Nos. 16, 24, 26.....	\$55.00 for each occupant

A suite occupied by one student will cost \$100.00 per year. A single room can be occupied by only one student.

A suite of rooms can be occupied by no more than two students.

APPLICATION FOR ROOMS

Rooms will be reserved in order of application.

Application for reservation must be made to the Secretary or to the President, accompanied by a deposit of \$5.00, which will be credited on the rent of the room. If the room is not taken and the balance of the rent paid the deposit will be forfeited.

In making application it will be well to indicate the number of room according to first, second and third choice. Early application is recommended.

PAYMENT OF RENT AND LIGHT

Room rent must positively be paid in cash in advance at the opening of each semester. No bills for rent will be sent to parents or guardians.

EXPENSES

COLLEGE DUES

The Treasurer will be at the College for the collection of fees at the opening of each semester, when all students are required to settle with him. Bills will be sent to parents or guardians upon written request from same. Before a student is admitted to actual standing in any class, a class card showing that he has complied with the rules relating to College charges must be presented. No fees will be returned save in cases of removal from the College on account of severe and protracted illness.

As it is expected that a new library building and a new gymnasium will be erected before the beginning of the next college year, the following schedule of fees may be subject to some revision.

UNDERGRADUATE DUES

Tuition for regular schedule, First Semester.....	\$25.00
Second Semester.....	25.00
Public Rooms Fee (light, heat, care), First Semester.....	8.00
Second Semester.....	8.00

Where a student is allowed to take work in excess of his class schedule or program, he is charged a supplementary fee of one dollar per hour for each additional course so taken.

Damage deposit, \$1.50 per semester. The order of the Board of Trustees as to this deposit is as follows:

Ch. 9. Sec. 2. When damage is done to the College buildings or the appurtenances thereof, and the one who did it cannot be detected, it shall be paid for out of a deposit of one dollar and fifty cents, required at the opening of each semester of all students. What remains of the deposit after paying for the damages done, shall be refunded to the students at the close of the year.

There is no charge for registration, if it is completed on the Registration Days; *otherwise, a fee of One Dollar will be charged.* This fee will be remitted only by order of the President, upon presentation of a sufficient excuse for such delay. *This rule will be rigidly enforced.* The mere fact of the student returning to Danville after the opening of the term will not be considered as a ground for remitting the charge for late registration, unless the cause of such delay be illness or an equally important reason. *This rule, however, does not apply to new students who may enter college too late for registration on the regular days.*

A graduation fee of \$7.00 covering diploma fee and all expenses of Commencement Day, must be deposited by every candidate for graduation with the Treasurer of the College at the opening of the second semester. If the candidate should not receive a diploma, this deposit will be returned.

Laboratory fees are charged as follows:

Chemistry

Elementary Chemistry, per semester, three hour course.....	\$5.00
All Laboratory courses, per semester, three hour course.....	5.00

Physics

All Laboratory courses, per semester, three hour course.....	5.00
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Biology

Elementary Biology, per semester, three hour course.....	5.00
Comparative Anatomy, per semester, three hour course.....	5.00
Histology, per semester, three hour course.....	5.00
Bacteriology, per semester, three hour course.....	6.00
Physiological Chemistry, per semester, three hour course.....	5.00

The above fees cover the cost of ordinary experimental material, but students are charged extra for breakage and for special and rare material.

GRADUATE DUES

For information concerning graduate dues, consult the general rules governing graduate study, page 67.

ESTIMATE OF ANNUAL EXPENSES

The following is an approximate estimate of the annual expenses of a student, not including outlay for clothes, traveling or other strictly personal expenses.

	MAXI- MUM	MEDI- UM	LOW
Board and Room for 38 weeks at \$6.00 to \$5.00	\$228.00	\$190.00	
Board at co-operative club and room in Breckenridge Hall			\$135.00
Tuition payable in two installments, strictly in advance	50.00	50.00	50.00
Contingent fee, required of all	16.00	16.00	16.00
Books	30.00	25.00	20.00
Total	\$324.00	\$281.00	\$221.00

A student holding a scholarship will reduce his expenses under schedule "Low," \$30.00 to \$70.00, according to the grade of his scholarship. See rules below governing scholarships.

SELF HELP

Lack of pecuniary means alone need not prevent young men of energy and persistent purpose from obtaining a college education. Many find remunerative employment for leisure hours and vacations which enable them to complete the course free from debt. It is generally true that there is work to be had about town for those who want it. It cannot usually be engaged beforehand.

There are some opportunities for service in connection with the College open to qualified students.

SCHOLARSHIPS

Scholarships in distinction from prizes, are designed to aid those who are chiefly dependent upon their own exertions in securing a college education. It is not expected that those whose ordinary expenses can be met by parents or through other sources will apply for beneficiary aid.

All scholarships are awarded to students who meet the following requirements:

1. Good scholarship.
2. High personal character.
3. The need of pecuniary aid.
4. Punctuality, regularity, and respect for law and order in student life.
5. Habits of economy in the use of both time and money.

There are five grades of scholarships, as follows: \$30.00, \$40.00, \$50.00, \$60.00, \$70.00 a year.

Only the lowest grade of scholarship (at the rate of \$30.00 a year) is granted to new students; but subsequent awards are made strictly in accordance with the grades received for the student's work in college.

At the end of each semester the scholarships are re-rated upon the basis of the student's record for scholarship during the previous semester.

Students who show proficiency may be given a higher grade of scholarship. Scholarships may be reduced, or withdrawn entirely, in case of failure to maintain a proper standard of study, work or conduct.

The following additional rules govern the assignment of scholarships:

1. Application must be made on the blank forms provided for the purpose. In the case of new students, these applications should be filed as early as possible, accompanied by the testimonials indicated in the forms. All scholarships awarded to students *before admission* are granted provisionally, and will be confirmed on the 1st of November if the students meet the five requirements above mentioned.

2. Students already holding scholarships must renew their applications for the succeeding year on or before May 15th of each year. Awards will be made in June.

3. A scholarship, having been withdrawn, may be restored after the lapse of a semester, if former deficiencies are made good and no new ones incurred.

4. In awarding scholarships preference is given to regular candidates for a degree, and those who intend to finish their course in Centre College.

GRADATION OF SCHOLARSHIPS

The system of scholarships based upon beneficiary aid will follow the grades which determine the standing of a student in college.

Beneficiary aid to the value of \$30.00 will be given for grade D, but will not be given below that grade except in cases of marked faithfulness in attendance and study.

Scholarship allowance begins with grade C.

To become the recipient of a \$40.00 scholarship, the beneficiary must sustain an average of grade C; for a \$50.00 scholarship, an average of grade B; for a \$60.00 scholarship, an average of grade A; for a \$70.00 scholarship, he must meet the special condition of award assigned to honor scholarships. No students can hold both beneficiary and an honor scholarship at the same time.

STUDENT ORGANIZATIONS

YOUNG MEN'S CHRISTIAN ASSOCIATION

No organization in the country has exerted a more powerful influence for good upon the lives of young men than the Young Men's Christian Association. The local society of the international organization has long been an important factor in the life of the College. Religious meetings are held here regularly at the Chapel hour on Thursday morning and occasional social gatherings are arranged by the Association.

The Association can be of special help to new students and they are urged to ally themselves with it immediately upon entering college.

LITERARY SOCIETIES

There are two literary societies connected with the College,—the Chamberlain and the Deinologian. For these the College provides commodious halls, which have been handsomely fitted up and furnished by the members. The work of the societies is regarded as supplemental to that done in the class-rooms, and they are encouraged accordingly. Their exercises consist of debate, declamation, composition, and other forms of literary activity, and are conducted under such rules and regulations as the societies may adopt, consistent with the general objects of the College.

Credit is given in the English Department, under certain restrictions, for work done in the literary societies.

The literary societies hold public exercises on the 22d of February. On the Monday preceding Commencement Day an oratorical contest takes place between representatives of these societies. To the successful competitor in each contest a gold medal is awarded. The successful contestant in the former contest represents the College in the annual Inter-Collegiate State Oratorical Contest. The Ernst Debate has been established by Mr. Richard T. Ernst, of Covington, Ky., and is held as the preliminary debate in view of the annual Inter-Collegiate Debate of the Kentucky Inter-Collegiate Debating Association.

THE ROUND TABLE

The Round Table is a scholarship society of advanced students and members of the Faculty, instituted in the fall of 1907. It is intended to conserve and stimulate an interest in literary and humanistic subjects beyond the work of the class-room. To this end, at the fortnightly meetings of the club, the members read and submit for discussion papers within the scope of the society's interests. Students who have completed with an excellent record in scholarship, two and one-half years of work, and who have shown an active interest in humanistic and literary subjects, are eligible for membership.

STUDENT PUBLICATIONS

The students of the College publish a weekly paper, *THE CENTO*, which is devoted to the recording of current events in the college world, and to literary articles by the students, thus furnishing opportunity for valuable training in journalism to students with a gift for writing. In addition, an annual, *THE CARDINAL AND BLUE*, is published every spring by the Senior Class.

ATHLETIC ASSOCIATION

The Athletic Association is composed of voluntary membership, and has charge of the outdoor sports of the College—football, baseball, track work and other athletic events. It is managed in connection with an advisory committee from the Faculty, and has been a marked success from its organization.

STUDENT ACTIVITIES

The students are allowed and encouraged to form and maintain societies for useful purposes. But all such societies must be formed with the consent of the Faculty, and must be conducted in conformity with any regulations which the Faculty may from time to time prescribe.

No meeting of student organizations or associations, and no public meeting of students may be held during the hours devoted to the regular exercises of the College without permission of the President or the Dean.

No meeting of student organizations may be held in the chapel or recitation rooms of the College without permission of the President or Dean.

To be eligible to participate in any inter-collegiate contest, or to participate, (1) in an oratorical, dramatic, or musical exhibition, (2) in the official management of any class organization, or college team, or (3) in official service on any student publication, a student (1) shall be carrying not less than 12 hours of college work, and (2) shall sustain his current work at a satisfactory grade.

The Faculty Committee on Student Publications is authorized to review all student publications before issue whenever the occasion arises for such review.

No Student Publication shall appear without the sanction of the Faculty Committee on Student Publications.

Each student taking part in the Class Day exercises shall submit to the chairman of the Faculty Committee on Student Publications a copy of his speech at least one week before Commencement, and if he shall make additions to what is contained in the copy approved, or shall speak anything in public which he has been directed to omit, he shall forfeit his degree.

COLLEGE BUILDINGS

THE MAIN BUILDING

This building, which was completed and occupied in the fall of 1871, is of brick with stone trimmings. It contains three stories and basement. On the first floor are the museum and the biological lecture rooms and laboratories. The second floor contains the chapel

and the lecture rooms of the Departments of English, Latin and Greek. On the third floor are the halls and libraries of the literary societies.

BRECKINRIDGE HALL

This building was erected in 1892, and rebuilt in 1908 in much improved form, having been practically destroyed by fire March 2, 1908. It is a three-story building containing the executive offices, the lecture and class rooms of the Department of Modern Languages, a large drawing room, and two separate halls furnishing dormitories equipped with every modern convenience.

YOUNG HALL.

This handsome building, completed in 1909, is a memorial to the distinguished presidents of Centre College, Dr. John C. Young, and Dr. William C. Young.

The building is 75 by 116 feet, three stories high, and is of Bedford stone and buff pressed brick, with tile roof. The basement story is of cut stone, and the rest of the structure of brick handsomely trimmed with cut stone. The interior of the building is finished with white pressed brick, and the interior wood finish is of yellow pine, with heavy beams and wood ceiling.

The whole building, which is devoted to the work of the departments of Chemistry, Physics and Mathematics, is admirably fitted for the work for which it is designed, and the student will find here excellent equipment for the work of these departments. The building is not excelled in the completeness of its arrangements by any scientific building in the country.

THE OLD COLLEGE

In this, the oldest building now upon the campus, the whole work of the College was conducted until 1871. The Department of History and Economics now has rooms in this building.

SAYRE LIBRARY

The College library, consisting of about 22,000 volumes, is for the present located in this building, which contains a large, well

furnished reading room where students have access to the library as well as to numerous magazines.

LABORATORIES AND MUSEUM

CHEMISTRY

The department of chemistry is located on the third floor of Young Hall. Here are laboratories well equipped for the work outlined in this catalogue. A commodious hall connects the various laboratories, the main store room, a lecture room and the private office of the professor. The laboratory for the first year work extends along the entire eastern end of the building. At the west end of the building are laboratories for organic chemistry and qualitative analysis, which are separated from each other and from the private laboratory of the professor by glass partitions. The north side is occupied by a recitation room, a quantitative analysis laboratory and a balance room. Two laboratories, one for physical chemistry and the other for sanitary chemistry, are on the first floor.

The desks in all the laboratories are arranged in such fashion that the working surface is unbroken. Through the center of each desk runs a lead lined trough, into which all the water from the taps falls, these troughs emptying into large alberene stone sinks at the end of each section of desks. The water and gas fixtures are placed over the center of the troughs, with convenient connections for use on either side of the desks. All desk tops, except those in the laboratory for organic chemistry, which are of alberene stone, are treated with a preparation which makes them practically impervious to reagents. The hoods in all laboratories are equipped with the usual gas and water connections; also with hot water baths.

The main lecture room supplied with modern conveniences, is arranged for seating eighty students. At the lecture desk convenient taps deliver water, coal gas, hydrogen sulphide and compressed air. Experiments with objectionable gases can be performed before the class through the use of a large hood to the rear of the lecture desk.

PHYSICS

The whole of the second floor of Young Hall and a large part of the first floor are used for instruction in physics. The second floor contains two large laboratories, one 72 by 22 and one 41 by 22 feet,

a lecture room with eighty seats and a recitation room with forty, a room for apparatus and supplies, a work-shop with screw-cutting lathe and all necessary tools, the physics and chemistry library and a professor's office with private laboratory adjoining. On the first floor are situated two rooms which can be darkened for photometric and spectrographic work, a photographic dark room, a laboratory for physical chemistry, a room with double walls for constant temperature work, a storage battery room, a laboratory with piers for delicate work in electrical measurements, a dynamo laboratory, and wood-shop. The laboratories are supplied throughout with heavy oak individual tables and equipped with gas, water and compressed air. Alternating current is supplied from the city power plant and direct current from a motor-generator and storage battery. There is a sufficient supply of apparatus for elementary work to allow of the laboratory experiments being conducted on the multiple plan. For more advanced work there is provided a good collection of accurate resistance boxes, sensitive ballistic and dead-beat galvanometers, portable voltmeters and ammeters, Wheatstone bridges, mica and paper condensers, induction coils, spectroscopes, a polariscope, an interferometer, a Sharp-Millar photometer, and other apparatus suitable for accurate measurements.

A complete dynamo laboratory provides facilities for instruction in the care, operation and testing of electrical instruments and apparatus. The laboratory is supplied with alternating current from the town plant and direct current for experimental purposes is obtained from a generator driven by a ten-horsepower induction motor. The equipment includes also a double current generator, capable of a great variety of uses, and series, shunt and induction motors. Various types of transformers, meters and arc lamps are represented and all necessary lamp banks, rheostats and portable measuring instruments are provided. A three panel marble switchboard is used to make connections for operating the apparatus under any desired conditions.

PHYSICS AND CHEMISTRY LIBRARY

The working library of the Departments of Physics and Chemistry is located in a large and well lighted room on the second floor of Young Hall where the books are readily accessible to the students

in these departments. In it are found two complete sets of journals, the Journal of the English Chemical Society from the beginning in 1841 and the American Chemical Journal from 1880. There are also a number of partially complete sets including volumes of the Physical Review, Science Abstracts, and others. Current copies of eight or ten scientific journals devoted to Physics and Chemistry are found on the library tables and are available at all times for the use of students. The shelves contain several hundred modern books of reference and this number is being increased as fast as available funds will allow.

BIOLOGY

The biological laboratories are now located on the first floor of the main building of the College. They include a laboratory for general biology, for bacteriology, for animal histology and morphology, and for physiology. There is also a large lecture room and an office and professor's private laboratory. The equipment is modern and includes thirty-five microscopes of the Bausch and Lomb BB4 type, a Minot microtome for paraffine sections, paraffine baths, a Bausch and Lomb microtome for celloiden sections, and other equipment necessary in a well organized biological department. A very complete bacteriological equipment has been installed. This includes steam and hot air sterilizers, an autoclave, a large incubator, serum inspissator, etc. This department is thus in a position to devote considerable attention to this important subject both from its pre-medical aspect and that of a general economic value.

MUSEUM

The Museum is well equipped with material for illustrations in all branches of geological study. The typical minerals are systematically arranged so that one can see by a glance at the label where each belongs in relation to others; the various ores, with duplicates convenient for study, are provided for critical examination.

In paleontology, fossils typical of all the epochs are on the shelves and in the work-room for special inspection. The rarer forms, such as Ichthyosaurus, Plesiosaurus, Pterodactylus, Dinosaur, Glyptodon and Megatherium, are represented by Ward's casts, supplied through the liberality of the late Dr. John W. Scott.

ATTENDANCE, EXAMINATIONS AND STANDING

REGISTRATION AND ATTENDANCE

All students should present themselves punctually at the opening of the session in September. Many disadvantages result from late entrance, and in some instances it has been found impossible for a student entering late to maintain his standing in the class. Prompt attendance is, therefore, earnestly enjoined upon all who wish to derive the full benefits of the course of instruction.

Prompt and regular attendance is required on all class and laboratory exercises. According to the method of recording absences, a student will lose the value of his course credits in proportion to his failure in attendance.

PUBLIC WORSHIP

Devotional exercises, consisting of prayers, hymns and Scripture reading, are conducted in the chapel every morning, and all the students are required to be present.

EXAMINATIONS

Examinations of all the classes are held at the close of each semester, and are conducted by the several professors in their departments. Special examinations are held during the year, as needed.

RANK OF SCHOLARSHIP

The rank of scholarship in the graduating class of each year will be indicated in the Commencement program as follows: *Summa cum laude*, prefixed to a degree, indicates that the recipient is a first-class scholar; *magna cum laude*, second-class; *cum laude*, third class; those with no prefix have a grade below 85.

ABSENCES AND EXCUSES

There shall be no excused absences except in cases of prolonged illness. In such cases the absences may be removed only by the Faculty.

A student shall have a right without sacrifice of credits to five absences from each course, provided that the work is made up to the satisfaction of the instructor. Each absence immediately preceding or following a recess or vacation shall count as two absences for the purposes of this rule.

Each semester hour successfully carried entitles a student to one credit towards graduation. But in case of more than five absences from any course, credits are deducted according to the following rule: one-half credit for absences, more than five in number, but less than ten; one credit for ten or more, but less than fifteen; one and one-half credits for fifteen or more, but less than twenty; and for twenty absences two credits shall be deducted.

The above provisions of this section have nothing to do with the determination of grades, these being estimated as usual on the basis of the character of the work done and prompt and regular attendance on all class duties.

All omitted work due to absences, whether excused or unexcused, shall be made up to the satisfaction of the instructor concerned.

If the work made up consists of lectures, laboratory practice, written recitations, or other work requiring the supervision of an instructor, a charge of fifty cents for each hour so occupied shall be made. The necessary amount must be paid in advance at the College office and the receipt presented to the instructor before the work can be made up.

Absences on account of contests and conventions away from Danville under the sanction of the Faculty will not entail absence penalties, provided that all omitted work is made up promptly.

CLASSIFICATION

At the beginning of the second semester classification for publication in the catalogue is determined upon the following basis:

A student shall be classified as Freshman until he has obtained 34 credits.

A student shall be classified as Sophomore until he has obtained 64 credits.

A student shall be classified as Junior until he has obtained 96 credits.

CONDITIONS

A student who has been conditioned may remove the condition by passing a satisfactory re-examination upon the work of the term, or, in the discretion of the instructor, by doing additional work.

A fee of \$2.00 shall be charged for each re-examination to re-

move a condition incurred by a failure to make a passing grade. This fee must be paid at the College office and the receipt therefor shown to the instructor before the examination may be taken.

All re-examinations are given at the discretion of the instructor. In such cases a grade of 60 only shall be recorded.

When a mark "Abs." has been reported and the student's absence from the examination excused by the President, he shall have the right to an examination on payment of a fee of \$2.00. If the student passes this examination, the grade recorded shall be that actually earned. This examination may be taken at a date arranged with the instructor.

A student absent from an examination without being excused shall be conditioned in that course. For the special examination to remove a condition incurred in this way a fee of \$5.00 will be charged. This fee must be paid at the College office, and the receipt shown to the instructor before the re-examination can be taken.

REPORTS TO STUDENTS AND PARENTS

Reports of each student's scholarship, attendance and general deportment are made to his parent or guardian two times a year. Special reports are made at shorter intervals if there is anything in the student's conduct or standing to call for them.

When the grade of a student falls below 60, the instructor shall report the fact at once to the President, who will send a formal notification of the deficiency to the student. If a second report is made, notification will again be sent to the student, and at the same time his parent or guardian will be informed of the unsatisfactory character of his work.

When a student has had a grade of less than 60 for four consecutive weeks, he shall be dropped from the class, unless the instructor requests his retention on probation for a short time.

PRIZES

THE HENRY BARRET BOYLE PRIZE

The Henry Barret Boyle Prize, established by Gen. J. T. Boyle, is annually awarded to the best Latin student of the Sophomore class, provided that the contestant's work in every other department is of high order. The prize consists of a valuable gold watch appro-

priately engraved. The award is publicly made by the President on Commencement Day.

THE ORMOND BEATTY ALUMNI PRIZE

In 1886 the alumni of Centre College contributed a fund of \$1,000 to signalize the completion of President Beatty's fifty years' service to his alma mater. The annual interest on this fund is publicly awarded on Commencement Day to the student of the Senior class who has the best record for punctuality, deportment and scholarship. In determining this award account is taken of Senior work only.

ORATORICAL PRIZE

An oratorical contest between the two literary societies is held annually. The prizes awarded to the successful competitors consist of two gold medals presented by the College. The date of this contest is Monday evening of Commencement week.

THE WILLIAM ERNST PRIZE

This prize has been offered by the Hon. Richard P. Ernst, of Covington, as a memorial of his father, Mr. William Ernst. The gift, amounting to \$75.00, is awarded in three prizes of \$25.00 each to the three ranking men in the Inter-Society debate.

HONOR SCHOLARSHIPS

A scholarship of \$70.00 is offered to that member of each class below the Senior year who maintains the highest general average in scholarship in the regular studies of his class and whose deportment and punctuality are correspondingly worthy. The winners of these scholarships will be announced at Commencement and the scholarship will be available during the next session.

ADMINISTRATION

The general principles of the college government are embraced in the following statement:

Since the sole aim of the Trustees in framing the College laws and regulations, and that of the Faculty in administering them, is to secure the best interests of the students, it is confidently expected that every one will yield a cheerful obedience to them. The govern-

ment of the College is intended to be mild, granting to each student all privileges and enjoyments consistent with his own welfare and that of his associates; at the same time it must be firm, enforcing obedience to all the restraints and restrictions which the Trustees or the Faculty shall deem it their duty to enjoin. If any offend against the rules, their reformation will be strictly aimed at so far as practicable, and no severe or humiliating penalty will be inflicted, except when the paramount interests of the institution demand it. The students are treated as gentlemen and are expected to conduct themselves as such.

BEQUESTS

All gifts, legacies and devises for the Centre College, or for any phase of the work under the care of the Trustees of Central University, should be made payable to Central University of Kentucky, a corporation organized under the laws of the State of Kentucky.

FORM OF BEQUEST

“I give and bequeath to Central University of Kentucky, for the sole use and benefit of The Centre College of Kentucky, located at Danville, in the State of Kentucky,—said Centre College being the academical department of said Central University—the following”—(here describe the thing or property given).

If the donor or testator desire that the money, stock, or property shall be devoted to a particular professorship, department, scholarship or medal, etc., he will, after describing the property or thing given as indicated above, add the following:

“*To be held in trust and used by said CENTRAL UNIVERSITY OF KENTUCKY under the control and direction of the Board of Trustees thereof, for*” (here describe the particular use desired to be made of the fund, or its annual interest).

ADMISSION TO THE COLLEGE

All new students must report to the registrar immediately after matriculation.

The minimum requirement for entrance without conditions to the Freshman class is fifteen units. The minimum for conditional admission is twelve units.

ADMISSION BY EXAMINATION.—Candidates for the Freshman class, who are not graduates of an accredited school, will be examined on the subjects necessary for entrance to the particular course chosen.

ADMISSION BY CERTIFICATE.—Graduates of accredited schools are admitted to the Freshman class upon presentation of a certificate issued by the superintendent or principal. Blank certificates can be obtained by applying to the Secretary to the President, Central University, Danville, Ky.

A committee, consisting of one representative from each of the Colleges in the Association of Kentucky Colleges, is now engaged in an examination of the courses of study and facilities of the high schools and academies of Kentucky, and is preparing lists of accredited schools known as classes A and B. Schools are accredited only after inspection by the State High School Supervisor, and upon his recommendation.

Class A includes schools which meet the following requirements: A four-year course of study, requiring sixteen units for graduation, at least fifteen of which are college entrance units; three qualified teachers devoting all their time to high school work; a minimum of forty minutes to each recitation; a school year of not less than thirty-six weeks; a sufficient equipment properly to teach the subjects offered; a progressive school spirit and sentiment; classes not too large for good work, and whose work is recognized as satisfactory. Class B includes schools which are lacking in one or more of the above requirements and which offer thirteen or more college entrance units for graduation and whose work is considered satisfactory, provided that no school shall be admitted to this class which does not have two qualified teachers devoting full time to high school work, with an equipment sufficient properly to teach the subjects offered, and sufficient time given to each recitation for satisfactory class work.

LIST OF ACCREDITED SCHOOLS

PUBLIC HIGH SCHOOLS

Class A

Location	Name of School	Supt. or Prin.
Ashland	High School	B. S. Stanton.
Augusta	High School	T. Sanford Williams.
Bellevue	High School	W. P. King.
Bowling Green	Western Ky. Normal....	H. H. Cherry.
Carrollton	High School	G. H. Wells.
Catlettsburg	High School	C. E. McCorcle.
Central City	High School	W. C. Bell.
Covington	High School	H. O. Sluss.
Cynthiana	High School	T. A. Hendricks.
Dawson Springs	High School	J. C. Jenkins.
Falmouth	High School	I. C. Reubelt.
Flemingsburg	High School	Edmund Wroe.
Frankfort	High School	H. C. McKee.
Franklin	High School	J. V. Chapman.
Versailles	High School	J. T. Green.
Georgetown	High School	J. C. Waller.
Glasgow	High School	E. B. Terry.
Greenville	High School	C. C. Hayden.
Elizabethtown	Hardin Co. H. S.....	C. H. Gifford.
Hardinsburg	County High School....	R. Y. Maxey.
Harrodsburg	High School	J. A. Nickell.
Henderson	High School	J. W. Welch.
Hopkinsville	High School	D. A. Clark.
Lancaster	High School	J. L. Riley.
Lawrenceburg	County High School....	Mrs. C. Kavanaugh.
Lawrenceburg	Town High School....	H. V. Bell.
Lebanon	High School	J. R. Sterritt.
Lexington	Morton High School....	F. R. Parks.
Louisa	High School	F. M. Kennison.
Louisville	Male High School.....	E. O. Holland.
Louisville	Manual Training H. S..	F. P. Chapin.
Ludlow	High School	W. D. Reynolds.
Madisonville	High School	R. B. Rubins.
Marion	High School	J. U. Snyder.
Mayfield	High School	C. T. Cannon.
Maysville	High School	J. W. Bradner.
Midway	High School	W. R. Chandler.
Mt. Sterling	High School	W. O. Hopper.
Morganfield	High School	J. W. McDonald.
Murray	High School	F. E. McReynolds.
Newport	High School	J. A. Sharon.

Location.	Name of School.	Supt. or Prin.
Nicholasville	High School	W. G. Hart.
Owensboro	High School	J. H. Risley.
Owenton	High School	J. B. Holloway.
Paducah	High School	J. A. Carnagey.
Paris	High School	G. W. Chapman.
Pembroke	High School	B. F. Brown.
Princeton	High School	G. C. Sipple.
Richmond	Caldwell High School....	D. W. Bridges.
Richmond	Model High School.....	J. G. Crabbe.
Richmond	Eastern Ky. Normal.....	J. G. Crabbe.
Shelbyville	High School	T. A. Houston.
Somerset	High School	J. W. P. Brouse.
Stanford	High School	J. W. Ireland.
Sturgis	High School	H. W. Loy.
Walton	High School	J. G. Prather.
Winchester	High School	E. F. Darnaby.

Class B

Bardstown	High School	P. H. Neblett.
Beaver Dam	West Kentucky Sem.....	O. L. Shultz.
Bedford	Trimble Co. H. S.....	R. A. Edwards.
Benton	High School	E. S. Ryle.
Bowling Green	High School	E. H. Sigler.
Butler	High School	M. C. Rateliff.
Cadiz	High School	R. H. Brown.
Carlisle	High School	R. D. Squires.
Clinton	High School	H. W. Puckett.
Cloverport	High School	T. B. Culton.
Columbia	High School	C. C. Turner.
Corydon	High School	L. H. Gehman.
Danville	High School	O. B. Fallis.
Dixon	High School	S. G. Boyd.
Elkton	High School	F. B. Weathers, Jr.
Eminence	High School	J. B. Sibley.
Guthrie	High School	J. B. Johns.
Hartford	High School	H. E. Brown.
Hickman	High School	B. F. Gabby.
Hodgensville	High School	G. C. Woodson.
Horse Cave	High School	T. H. Napier.
Junction City	High School	R. D. Gibson.
La Center	County High School....	C. C. Justus.
La Grange	High School	W. J. Caplinger.
Leitchfield	High School	T. A. Humble.
Mayslick	County High School....	R. F. Gaither.
Middlesboro	High School	M. O. Winfrey.
Minerva	County High School....	W. C. Coryell.
Morgantown	High School	M. K. Gillan.

Location.	Name.	Principal.
Munfordville	High School	C. W. Bailey.
Newcastle	High School	J. A. Caldwell.
Sebree	High School	T. W. Oliver.
Springfield	High School	G. C. Colvin.
Tompkinsville	High School	R. A. Palmore.
Uniontown	County High School.....	J. S. Singleton.
Versailles	High School	W. O. Vaught.
Vine Grove	High School	G. L. Crumm.
Warsaw	High School	C. S. Joseph.
West Liberty	High School	H. C. Wilson.
West Point	High School	W. H. Sprigg.
Wickliffe	High School	W. E. Bohannon.
Williamstown	High School	H. Newton.

PRIVATE INSTITUTIONS

Class A

Barbourville	Union College	P. Ports.
Clinton	Marvin Univ. School.....	A. J. South.
Columbia	Lindsey-Wilson	P. D. Neilson.
Glasgow	Liberty College	M. W. Hatton.
Hartford	Hartford College	H. E. Brown.
Hopkinsville	McLean College	A. C. Kuykendall.
London	Sue Bennett Memorial..	J. C. Lewis.
Lyndon	Ky. Military Institute..	Col. C. W. Fowler.
Louisville	Training School	W. H. Pritchett.
Louisville	University School	W. H. Tharp.
Millersburg	Military Institute	Col. C. M. Best.
Owensboro	Owensboro College	J. E. Larue.
Paintsville	Sandy Valley Seminary	J. M. Skinner.
Russellville	Bethel College, Prep....	F. D. Perkins.
Stanton	Stanton College	J. C. Hanley.
Williamsburg	Williamsburg Institute..	E. E. Wood.
Wilmore	Asbury College Acad.....	E. T. Franklin.

Class B

Campbellsburg	Campbellsburg College..	J. W. Pearcy.
Elkton	Vanderbilt Train. Sch.	Matheny and Batts.
Hazel Green	Hazel Green Academy..	J. H. McGarvey.
Hindman	Hindman School	George Clark.
Nicholasville	Threlkeld School	T. B. Threlkeld.
Oneida	Baptist Institute	J. H. Works.
Smith's Grove	Warren Baptist Acad...	R. H. Shipp.
Versailles	Rose Hill Academy.....	M. G. Jesse.

ENTRANCE REQUIREMENTS**Total Requirements: 15 Units**

Every candidate for a degree must offer the following:

English	3	units
Mathematics	2½	units
History	1	unit
Science	1	unit
A Foreign Language	2	units
Total	9½	units

Candidates for the degree of Bachelor of Arts must offer four units of foreign language, at least three of which must be in Latin. Not more than four units may be offered in one subject.

To complete the total requirement of fifteen units, choice may be made from the following subjects:

Latin	1	to 4	units
Greek	1	to 3	units
German	1	to 3	units
French	1	to 3	units
Spanish	1	to 2	units
History and Civil Government	1	to 3	units
Solid Geometry		½	unit
Trigonometry		½	unit
Agriculture		½	unit
Botany	½	to 1	unit
Chemistry		1	unit
Geology	½	to 1	unit
Physics		1	unit
Physical Geography	½	to 1	unit
Physiology		½	unit
Drawing	½	to 1	unit
Manual Training		½	unit
Commercial Arithmetic		½	unit
Psychology		½	unit
Political Economy		½	unit

A unit is one-fourth of a year's work in the high school.

Not more than two units in vocational studies may be offered.

NOTE.—Those offering Latin or Greek, but no German, for scientific courses, will take German and continue this study through the Sophomore year.

DEFINITION OF ENTRANCE REQUIREMENTS

1. *English*

The requirement in English includes (1) ability on the part of the applicant to express himself in writing in a clear and accurate manner, and (2) ability to appreciate the qualities that mark a work as being literature. Evidence of some power of literary appreciation, even despite ignorance of particular books or authors, will be held more acceptable than unappreciative literary learning.

Grammar and English Composition.—The applicant ought to be familiar with the essential principles of English grammar and be able to explain the syntactical structure of any sentence encountered in his reading. He must also possess the ability to write in a plain and natural style short compositions upon subjects familiar to him, correct in spelling, punctuation, grammar, idiom, and division into paragraphs. One unit.

Reading in Literature.—These readings are divided into two classes, books intended for thorough study and practice, and books intended merely for general reading. Two units.

For study and practice:—Shakespeare's *Macbeth*; Milton's *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

For general reading for 1913-14 selections from the following list:

GROUP I. (Two to be selected): Selections from the Old Testament; *The Odyssey*, omitting, if desired, Books I-V, XV-XVII; *The Iliad*, omitting if desired, Books XI, XIII, XIV, XV, XVII, XXI; Virgil's *Aeneid*.

GROUP II. (Two to be selected): Shakespeare's *Merchant of Venice*, Shakespeare's *Midsummer Night's Dream*, Shakespeare's *As You Like It*, Shakespeare's *Twelfth Night*, Shakespeare's *Henry V*, Shakespeare's *Julius Caesar*.

GROUP III. (Two to be selected): George Eliot's *Silas Marner*, Goldsmith's *Vicar of Wakefield*, either Scott's *Ivanhoe*, or Scott's *Quentin Durward*, Hawthorne's *House of the Seven Gables*, Defoe's *Robinson Crusoe*, Pt. I, either Dickens's *David Copperfield*, or Dickens's *Tale of Two Cities*, Thackeray's *Henry Esmond*, Mrs. Gaskell's *Cranford*, Stevenson's *Treasure Island*.

GROUP IV. (Two to be selected): *Sir Roger De Coverley Papers*, Franklin's *Autobiography*, Irving's *Sketch Book*, Macaulay's *Essays on Lord Clive and Warren Hastings*, Thackeray's *English Humorists*, Bunyan's *Pilgrim's Progress* Part I, selections from Lincoln's *Addresses and Letters*, Parkman's *Oregon Trail*, either Thoreau's *Walden*, or Huxley's *Autobiography* and selections from *Lay Sermons*, Stevenson's *Inland Voyage* and *Travels with a Donkey*.

GROUP V. (Two to be selected): Gray's *Elegy in a Country Churchyard* and Goldsmith's *Deserted Village*, Coleridge's *Ancient Mariner* and Lowell's *Vision of Sir Launfal*, Scott's *Lady of the Lake*, Byron's *Childe Harold, Canto IV*, and *Prisoner of Chillon*, Palgrave's *Golden Treasury* (First Series) Books II and III, Macaulay's *Lays of Ancient Rome* and Arnold's *Sohrab and Rustum*, Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*, Browning's *Select Poems* as in years 1909-1911, Palgrave's *Golden Treasury* (First Series) Book IV, Poe's *Raven*, Longfellow's *Courtship of Miles Standish*, and Whittier's *Snow Bound*.

It is expected that the applicant will have read these books appreciatively and will have made himself familiar with the subject-matter and the form of each work. The reading should be connected, in reasonable measure, with the lives and characters of the authors read and with the history of their time.

Although the books mentioned above are recommended as preparation for this part of the requirement, they are not prescribed. Books of equal merit, covering a similar range of literary types will be accepted as equivalent.

The applicant must present an explicit statement from his instructor that the entire requirement has been fulfilled.

History of English Literature.—The applicant who offers four units in English composition and literature should have pursued

the study throughout the four years of the high school course. In addition to the foregoing requirements, his preparation should include a systematic study of the outlines of English literary history. Due emphasis should be laid upon the division of the subject into periods; and the leading characteristics of each period should be studied, and as far as practicable, illustrated by the reading of representative authors. Any of the current manuals of English literature may serve as a basis for this part of the course. The historical study should, however, be associated as closely as possible with the reading of classics. One unit.

II. *Mathematics*

a. ALGEBRA

The four fundamental operations for rational algebraic expressions; factoring, determination of highest common factor and lowest common multiple by factoring; fractions, including complex fractions; ratio and proportion; linear equations both numerical and literal, containing one or more unknown quantities; problems depending on linear equations; radicals, including the extraction of the square root of polynomials and of numbers; exponents, including the fractional and negative; quadratic equations, both numerical and literal containing one unknown; simultaneous quadratic equations; problems depending upon quadratic equations; the binomial theorem for positive integral exponents, the formulas for the n th term and the sum of the terms of arithmetic and geometric progressions, with applications. One and one-half units.

b. PLANE GEOMETRY

The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons and measurement of the circle. The solution of numerous original exercises, including loci problems.

c. SOLID GEOMETRY

The usual theorems and constructions of good text-books, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders and cones; the sphere and the spherical triangle; the solution of numerous original exer-

cises including loci problems; application to the mensuration of surfaces and solids. One-half unit.

d. PLANE TRIGONOMETRY

General definitions of the functions, the relations of the functions, the solution of trigonometric equations, development of formulae, and the solution of triangles. One-half unit.

III. *Latin*

1. Grammar and Prose Composition. Translation into Latin of simple English sentences. One unit.

2. Cæsar, Gallic War, Books I-IV, with questions on forms, the constructions and subject matter. One unit.

3. Virgil, Aeneid, Books I-VI, with questions on the constructions, subject-matter and prosody. One unit.

4. Cicero. Six orations, with prose composition continued. One unit.

IV. *Greek*

Xenophon. Anabasis. Books I, II, III, IV.

Grammar. Goodwin or equivalent. A knowledge of Attic inflection and of the principles of syntax is essential.

Prose Composition. Collar and Daniell or equivalent. Ability to put English into Greek, *with accent*, is necessary. Two units.

V. *German*

The requirements for entrance into the Freshman Class in this subject correspond to those of the majority of the better institutions of the country, as they have been suggested by the Modern Language Association of America.

The examination will be upon the following subjects, and presupposes the reading of two hundred duodecimo pages of easy prose.

1. *Grammar*. A thorough knowledge of the forms, and familiarity with the commoner usages of syntax.

2. *Composition*. The ability to translate simple English sentences into idiomatic German.

3. *Reading*. The candidate will be asked to translate at sight a German selection containing no unusual words.

4. *Pronunciation.* The reading aloud of ten lines of easy prose.

The department would call the attention of teachers to the excellent report of the "Committee of Twelve" of the Modern Language Association, which contains a full discussion of the methods, outline of courses, etc., and which will be sent by the department upon receipt of twenty cents to all teachers desiring a copy.

The importance of a thorough knowledge of the rudiments of the grammar, as contained in Bierwirth's or Vos' Essentials of German Grammar, cannot be too severely insisted upon. The work should comprise: (1) Careful drill upon pronunciation. (2) The memorizing and frequent recitation of easy colloquial sentences. (3) Drill upon the inflection of the articles, of such nouns as belong to the language of every-day life, of adjectives both strong and weak, pronouns, weak verbs and the more usual strong verbs, such as *gehen, sprechen, finden, sehen, kommen, fahren*, etc., also upon the use of the more common prepositions, the simpler uses of the modal auxiliaries; and the elementary rules of syntax and word order. (4) Abundant easy exercises for the purpose both of fixing in the mind the forms and principles of grammar and to cultivate readiness in the reproduction of natural forms of expression. This includes the ability to read and write German script. (5) The reading of two hundred pages of easy prose, with constant practice in translating into German easy variations upon the sentences read or the reproduction of the sentences from memory. The necessary reading matter may be found in any standard graduated reader, or in such stories as Storm's *Immensee*, Gerstacker's *Germelshausen*, or similar text. Two units.

VI. *French*

(1) Translation of ordinary simple French prose into idiomatic English. It is believed that the ability to translate simple prose can be acquired by careful reading of not less than three hundred and fifty duodecimo pages chosen from the works of several authors. (2) Translation of simpler English sentences into French. This requirement presupposes careful training in elementary French grammar. This includes the conjugation of regular verbs, of the more common irregular verbs, such as *voir, dire, tenir, aller, savoir, faire, pouvoir*, as well as the classes represented by *connaître, conduire, dormir, ouvrir, craindre*; the inflection of nouns and adjectives for

gender and number, except rare cases; uses of articles and partitive construction; the forms and positions of the personal pronoun, the uses of other pronouns and of interrogative, possessive, and demonstrative adjectives. (3) The ability to pronounce French with a fair degree of accuracy. One unit.

VII. *Advanced German, French and Spanish*

Candidates for the higher classes than the Freshman in German and those who desire advanced credits in French and Spanish are required to stand an examination on all the work previously done by the class which they desire to enter. The attention of teachers in High Schools is called to the fact that examinations for advanced standing in all courses in this department include the history of the country whose language is being studied as contained in any of the volumes of "History of the Nations Series" (Putnam) or works of like scope. The entrance examination in second year Spanish includes the History of the Moors in Spain.

VIII. *History*

Preparation in history will be given credit upon the basis of time devoted to the study of each branch of the subject, rather than upon the amount of the ground covered.

It is recommended that not less than one year be given to any of the courses outlined below. The training in history should require comparison and the use of judgment on the pupil's part, rather than the mere use of memory. The use of good text-books, collateral reading, practice in writing, and accurate geographical knowledge are essential.

- a. Ancient History (to 800 A. D.)—One unit.
- b. Mediaeval and Modern History—One unit.
- c. English History—One unit.
- d. American History and Government—One unit.

IX. *Science*

a. PHYSICS

The preparation in physics should include individual laboratory work, comprising at least forty exercises, twenty of them quantitative; instruction by lecture table demonstrations, to be used mainly as a basis for questioning upon the general principles involved; and the study of at least one standard text-book, to the end that the

pupil may gain a comprehensive and connected view of the most important facts and laws of elementary physics. One unit.

b. CHEMISTRY

The preparation in chemistry should be conducted upon the same general plan suggested for the work in physics. One unit.

c. PHYSICAL GEOGRAPHY

The preparation in physical geography should include the study of at least one of the modern text-books, accompanied by field work. One-half unit.

d. PHYSIOLOGY

The preparation in physiology should include a study of the nature of foods and their history in the body; the essential facts of digestion, absorption, circulation, secretion, excretion, and respiration; the motor, nervous, and sensory functions; and the structure of the various organs by which these operations are performed. A note-book with careful outline drawings of the chief structures studied anatomically together with explanations of these drawings, and the study of a good text-book are essential. One-half unit.

e. BOTANY

The preparation in botany should include a study of the structure and elementary physiology of the seed plants; ecology, the natural history of the plant groups, and classification. The laboratory method of instruction should be emphasized, but not farther than it can be done with a simple magnifier. Accurate drawings and concise notes should be prepared by the student. One-half unit.

f. ZOOLOGY

The preparation in zoology should be along the same lines as those laid down for botany. It should be such as to render the student familiar with the salient characteristics of each of the animal sub-kingdoms. This can be accomplished only by a laboratory study of at least one type animal under each sub-kingdom. One-half unit.

X. Drawing

Candidates must submit a complete set of drawings, made under the supervision of a teacher of drawing and properly certified by him. These drawings should show ability in the candidate to execute

plain lettering, to make orthographic sketches of machine parts, and orthographic projection. One unit.

XI. *Shop Work*

Thorough manual training in wood work. A note-book containing description and sketches of work done is required. One-half unit.

ADVANCED STANDING

Candidates for advanced standing are examined in the studies which have been pursued by the class which they propose to enter or in others equivalent to them.

Those who have been members of other colleges must present certificates of regular dismissal, and they will be given credit for the studies pursued. Those bringing letters of dismissal from colleges having the same or equal requirements for admission with Centre College and which offer the same or equal courses of study, will be admitted without examination, to the standing which they have held in the institution from which they come.

No student will be admitted as a candidate for a college degree later than the beginning of the Senior year.

ADMISSION OF SPECIAL STUDENTS

Mature persons of good character who desire to pursue some special subject and who have had the requisite preliminary training are allowed to enter the various courses of study in the College without becoming candidates for a degree. Special students are subject to the same regulations regarding attendance and examinations as candidates for degrees; they must take fifteen hours of class-room work a week unless satisfactory reasons for a smaller assignment are presented.

REQUIREMENTS FOR DEGREES

Requirements for the Degree of Bachelor of Arts

The degree of Bachelor of Arts will be conferred upon the candidate who has completed 126 semester hours' work, including all the required studies of Course A, the Classical Course, or of Course B, the Modern Language Course, according to the following exhibit:

Course A—Classical

Freshman Year

	Hours a week		For descrip'n see	
	Semes- ter 1	Semes- ter 2	Page	Course Number
Latin	3	2	79	130
Greek	3	3	77	91
English	3	3	75	60
Mathematics	4	4	81	150
Biology			70	10
Chemistry } One.....	3	3	73	30
Physics }			87	230
Biblical Literature	1	1	69	1
Hygiene			70	11
	—	—		
	17	17		

Sophomore Year

Latin	3	3	79	135
Greek	3	3	77	92
English	3	3	75	63
Biblical Literature		3	69	2
History	3		78	112
Elective	3	3		
	—	—		
	15	15		

Elective Studies

	For descrip'n see	
	Page	Course Number
Mathematics	81	152-155
Physics	87	230-237
Chemistry	73	30- 33
Biology	70	10
German	84	170
French	85	185

Junior Year

Economics	3		89	250
Philosophy		6	86	220
Biblical Literature	3		69	3
Elective	9	9		
	<u>15</u>	<u>15</u>		

Elective Studies

English	75	66- 69
German	84	170-171
French	85	185-186
Greek	77	95
Latin	79	140
Surveying	81	164
History	78	113-116
Physics	87	230-246
Chemistry	73	30- 37
Biology	70	10- 17
Philosophy	86	222
Mathematics	81	152-156

Senior Year

Philosophy of Religion.....		3	86	227
Elective	15	12		
	<u>15</u>	<u>15</u>		

Elective Studies

	For descrip'n see	
	Page	Course Number
Greek	77	97
Latin	79	143
German	84	170-182
French	85	185-190
English	75	66- 71
History	78	113-116
Philosophy	86	222-227
Mathematics	81	153-158
Astronomy	82	163
Surveying	82	164
Chemistry	73	20- 37
Physics	87	230-246
Biology	70	10- 19
Geology	70	20
Economics and Political Science.....	89	251-255

Course B—Modern Language
Freshman Year

	Hours a week		For descrip'n see	
	Semes- ter 1	Semes- ter 2	Page	Course Number
Latin	3	3	79	130
German	3	3	84	171
English	3	3	75	60
Mathematics	4	4	81	150
Biology	3	3	70	10
Chemistry } One.....			73	30
Physics }			87	230
Biblical Literature	1	1	69	1
Hygiene			70	11
	17	17		

Sophomore Year

	Hours a week		For descrip'n see	
	Semes- ter 1	Semes- ter 2	Page	Course Number
French	3	3	85	185
German	3	3	84	172
English	3	3	75	63
Biblical Literature		3	69	2
History	3		73	112
Elective	3	3		
	<u>15</u>	<u>15</u>		

Elective Studies

Mathematics	81	152-155
Physics	87	230-237
Biology	70	10
Chemistry	73	30- 33
Latin	79	135
Greek	77	90

Junior Year

Economics	3		89	250
Philosophy		6	86	220
Biblical Literature	3		69	3
Elective	9	9		
	<u>15</u>	<u>15</u>		

Elective Studies

English	75	66- 69
German	84	173-174
French	85	186
Greek	77	90- 91
Latin	79	135-140
History	78	113-116
Philosophy	86	222
Physics	87	230-246
Chemistry	73	30- 37
Biology	70	10- 17
Surveying	82	164
Mathematics	82	152-156

Senior Year

	Hours a week		For descrip'n see	
	Semes- ter 1	Semes- ter 2	Page	Course Number
Philosophy of Religion.....		3	86	227
Elective	15	12		
	—	—		
	15	15		

For electives, consult departments under electives of the Senior year, Course A, page 60.

Requirements for the Degree of Bachelor of Science

The Degree of Bachelor of Science will be conferred upon the candidate who has completed 126 semester hours' work, including all the required studies of Course C, the Scientific Course according to the following exhibit:

Course C—Scientific

Freshman Year

English	3	3	75	60
German	3	3	84	171
Mathematics	4	4	81	150
Bible	1	1	69	1
Biology	6	6	70	10
Chemistry } Two.....			73	30
Physics }			87	230
Hygiene			70	11
	—	—		
	17	17		

Sophomore Year

	Hours a week		For descrip'n see	
	Semes- ter 1	Semes- ter 2	Page	Course Number
French	3	3	85	185
Bible		3	69	2
Mathematics	6	3	81	152
Elective	6	6		
	<u>15</u>	<u>15</u>		

Elective Studies

Biology	70	10- 15
Chemistry	73	30- 32
Physics	87	230-237
Mathematics	81	153
English	75	63
German	84	172
History	78	112

Junior Year

Economics	3		89	250
Philosophy		6	86	220
Bible	3		69	3
Biology } One.....			70	10- 17
Chemistry }	3	3	73	30
Physics }			87	234-237
French	3	3	85	185-186
Elective	3	3		
	<u>15</u>	<u>15</u>		

Elective Studies

	For descrip'n see	
	Page	Course Number
Astronomy	82	163
Biology	70	10- 17
Chemistry	73	30- 37
Physics	87	230-246
Mathematics	81	156
English	75	63- 67
German	84	172-173
History	78	113-117
Philosophy	86	220-222

Senior Year

Philosophy of Religion.....		3	86	227
Biology	} One.....	3	70	16- 19
Chemistry			73	31- 37
Physics			87	234-246
Elective	12	9		
	<u>15</u>	<u>15</u>		

Elective Studies

Astronomy	82	163
Biology	70	10- 17
Chemistry	73	30- 37
Geology	70	20
Physics	87	230-246
Mathematics	81	156-158
English	75	63- 70
French	85	186-188
German	84	172-174
History	78	113-117
Economics and Political Science.....	89	251-255
Philosophy	86	222-226

Regulations Governing Elective Courses

1. *Group Electives.* During the Junior and Senior years each student in Courses A and B must complete at least one six-hour course in each of two departments of Group I; and one six-hour course in a department of Group II. This course must be (1) elected in a department other than that already elected and (2) the course must be a laboratory science or mathematics.

GROUP I

Language and Literature
 English
 German
 Greek
 Latin
 Romance Languages

GROUP II

Mathematics and Science
 Biology
 Chemistry
 Physics
 Mathematics

2. *Free Electives.* The required studies and group electives of Courses A and B together amount to 97 hours of work. The student takes the remaining hours in free electives. Any subject open to an undergraduate student may be taken as a free elective, provided the student's previous work qualifies him to pursue the subject and the schedule permits. All the electives of scientific courses are free electives.

3. An elective course requiring a year for its completion cannot be dropped. Credits for such a course depend on its being carried through the year.

4. Generally, an elective course will not be given unless chosen by five or more students. This, however, will be optional with the professor in charge of the department.

VOCATIONAL EMPHASIS

The student who carries his college course having reference to some vocational ambition secures a definite and decided advantage in both the direction and intensity of his work. The college course is planned, with its division into required and elective studies, so that such emphasis may be secured by the wise selection of elective studies. In connection with his class adviser he ought to lay out a plan of work that would be purposeful not later than the opening of the second year of his college course. Such a course need not fail

of the finest elements of liberal culture while at the same time making definite preparation for professional training or business life later on.

As the fit grouping of electives is the problem of importance, certain groupings are suggested as bearing on the student's later training or career. The groupings are suggestive but not exhaustive. Other subjects can be included in the elective scheme from the courses described in the catalogue.

Suggested Elective Groups

Agriculture

Elementary Biology, Plant Physiology, Economic Entomology, Bacteriology, General Zoology, Chemistry, Analytical Chemistry, Organic Chemistry, Agricultural Chemistry, Geology, Economics, Commercial Law.

Business

French and German, Political Economy, American History, Constitutional History, Sociology, Commercial Law, Chemistry, Elementary Biology, Physics, English.

Education

History of Education, Advanced Psychology, History of Philosophy, Latin, German, English, Greek, History, Political Economy, Physics, Chemistry, Biology, Mathematics.

Engineering

French, German, Inorganic Chemistry, Quantitative Analysis, Calculus, Differential and Integral, Astronomy, Physical Measurements, Theoretical Mechanics, Geology.

Journalism

Romantic and Victorian Prose, Eighteenth Century Literature, Argumentation and Debate, Shakespeare, American History, Modern European History, Constitutional History, Political Economy, Sociology, Philosophy, French, German.

Law

American History, European History, Constitutional History, Public Speaking, Argumentation and Debate, Political Economy, Sociology, English Literature, French, German, Philosophy.

Medicine

General Biology, Bacteriology, Comparative Anatomy, Histology, Physics, General Chemistry, Organic Chemistry, Qualitative Analysis, Quantitative Analysis, French, German.

Theology

Public Speaking, Argumentation and Debate, Greek, Latin, German, French, History of Philosophy, Modern German Philosophy, Systematic Ethics, Political Economy, Constitutional Law, American History, History of Modern Sociology, Elementary Biology, Geology, Astronomy, English Literature.

Requirements for the Degree of Master of Arts

Bachelors of the several courses of the academic department of Centre College of Central University of Kentucky, or graduates of other institutions having requirements for the baccalaureate degree which are substantially equivalent, may be enrolled in the Graduate Department as candidates for the degree of Master of Arts.

Application for enrollment must be made in writing to the Committee on Graduate Studies not later than October 1st of the collegiate year in which the degree is to be taken. In case the degree is not conferred after one year of study a second notice must be filed with the committee three months before the second examinations, accompanied by a fee of \$25.00, unless this be in the case of a Fellow who has been allowed to extend his course over two years.

With the application an outline of the candidate's intended course of graduate study must be submitted together with the signed approbation of the professors with whom he expects to work. This choice of subjects is final.

The tuition fee of the Graduate Department is \$100.00, payable in advance in two installments at the opening of each semester. In addition, a diploma fee of \$10.00, is charged, payable when the thesis is submitted for examination.

The degree of Master of Arts will be conferred upon those candidates who, having complied with the above requirements, shall have completed the required graduate work as follows:

1. They shall have completed to the satisfaction of the pro-

fessors in charge a course of graduate study, which is the equivalent of fifteen hours of class work a week.

2. This course shall be pursued at this College during a residence of not less than one collegiate year. Work "in absentia" will not be recognized towards a degree.

3. This course of study shall consist of a principal subject (Major) and a subsidiary subject (Minor).

4. The Major and the Minor subjects must be chosen with the consent of the Committee on Graduate Studies, in different but related departments.

5. The courses must be of an advanced character and the work done by a candidate show zeal and ability. No subject counted for the baccalaureate degree or towards a professional degree will be counted for the Master's degree.

6. Of the fifteen hours of required work a week, five hours shall be devoted to the minor subject.

7. Not later than one month before Commencement the candidate must submit to the Committee on Graduate Studies a thesis approved by the professor in charge of the major course.

8. The candidate's thesis having been approved by the committee, he must pass a satisfactory examination before a board of three examiners, consisting of the professors in charge of the candidate's major and minor subjects and a representative of the Committee on Graduate Studies. The signatures of the three members of the examining board must appear on the report of the examination to the President of the University.

9. Before the successful candidate receives his diploma he must deposit in the University Library a typewritten copy of his thesis, properly bound.

COURSES OF INSTRUCTION

I. BIBLICAL HISTORY AND LITERATURE

PRESIDENT HINITT, PROFESSOR CHEEK, PROFESSOR THOMAS,
PROFESSOR FLIPPIN

1a,b *The Gospels*

An inductive study of the life of Christ. Texts, the Revised Version and Stalker's *Life of Christ*.

The Pauline Epistles

A study of several of the epistles. Stalker's *Life of Paul*. One hour, two semesters, Freshman year.

2b *Old Testament History*

The general course of the political, social and religious history of the Hebrews. Texts, the Revised Version and Blaikie's *Manual of Bible History*. Three hours, second semester, Sophomore year.

3a *The Bible as Literature*

A study of the general literary structures as narrative, wisdom, oratory, lyric and dramatic poetry, prophecy. Text, Moulton's *The Literary Study of the Bible*. The Revised Version. Three hours, first semester, Junior year.

5b *Philosophy of Religion*

See statement under Department of Philosophy. Three hours, second semester, Senior year.

6b *Seminary of Religious Problems*

Lectures and discussions. The purpose of the course is to bring to the attention of students the aspects of religious truth that are prominent today, both theoretical and practical, and various problems of Christian thought of present interest. Such topics as the following will be considered:

- (1) What is Religion?
- (2) Religion and Life.
- (3) The Social Teachings of Christ.
- (4) Christianity and Modern Social Problems.
- (5) What Ideas Christianity Used to Conquer the Ancient World.
- (6) Modern Missions and Social Progress.
- (7) The Great Religions of the World.
- (8) The Supremacy of Christianity.
- (9) Is There a Conflict Between Science and Religion?
- (10) The Influence of Philosophy on Religion.
- (11) The Influence of Philosophy on the Christian Religion.
- (12) The Psychology of Religion.
- (13) Religious Education.
- (14) What Think Ye of Christ?
- (15) The Full Meaning of Discipleship.
- (16) The Obligation of the Educated Christian to the World of Today.

These topics are suggestive and will be extended or varied under the development of the course.

Elective for Sophomores, Juniors and Seniors. One hour, second semester.

II. BIOLOGY AND GEOLOGY

PROFESSOR RAINEY

MR. COLEMAN, Assistant

10a *General Biology*

In this course, special emphasis is laid on the properties and functions of living organisms, both plant and animal. A comparative study of the typical invertebrates and of the thallophyta and bryophyta, (protozoa, yeast, spirogyra, grantia, hydra, earthworm, crayfish, etc.) will be made in the laboratory, accompanied by lectures and assigned readings. Emphasis is placed upon the economic aspects of the subject. Three hours, first semester.

10b *Vertebrate Zoology*

A study of the anatomy and physiology of the vertebrate animal accompanied by the dissection of the frog in the laboratory. Three hours, second semester.

11a *Hygiene*

A course of lectures on the general principles of hygiene, the laws of health, the nature of disease, the specific cause of disease, its prevention, exercise as related to health, and other topics of importance at the pubertal age. Required of all Freshmen. One hour, first semester.

13a *Comparative Anatomy*

Careful dissection of the dogfish, turtle and pigeon. Laboratory practice and assigned readings, accompanied by lectures. Three hours, first semester.

13b *Mammalian Anatomy*

The dissection of the cat. Three hours, second semester.

14a *Economic Entomology*

This course includes a study of the morphology and life history of such of the insecta as have a marked economic relationship to agricultural and sanitary science. Three hours, first semester.

15b *Plant Physiology*

This course includes a study of the life processes of plants, and their relation to environment, as soil, atmosphere, water supply, etc. Three hours, second semester.

16a *General Bacteriology*

A general course in the study of bacteria. The preparation of culture media, and the general morphology and physiology of the schizomycetes. Three hours, first semester.

16b *Economic Bacteriology*

This course may be varied to meet the needs of the individual pupil. The emphasis may be placed; (1) On the sanitary aspects of the subject; (2) Upon its application to soils and agricultural processes; (3) Upon its relation to human pathology. Three hours, second semester.

17a *Histology*

In this course attention is given to the technique of microscopical preparations, including the fixing, imbedding, sectioning and staining of animal tissues. A study is made of the cellular structure of the elementary tissues. Emphasis is placed on the drawings of the tis-

sues studied. Laboratory work with assigned reading. Three hours, first semester.

17b *Histology*

A continuation of the preceding course, attention being placed on the histological structure of the organs and systems of the animal body. Three hours, second semester.

19a, b *Evolution and Heredity*

A study of the evidences of the doctrine of evolution, and the various theories of heredity. The topics of variation, adaptation and other problems that arise in connection with evolutionary biology are discussed and some attention given to their application to plant and animal breeding and to eugenics. Courses 10a and b are prerequisites. One hour, first and second semester.

20a *Dynamical and Structural Geology*

Study of the agencies and processes at work in the past; theories of the earth's origin critically considered; stratification and sedimentation; conformity and unconformity; mountain making. Three hours, first semester.

20b *Historical Geology*

The course will cover the whole subject with special reference to the Trenton, Devonian and Subcarboniferous as represented in this vicinity. Three hours, second semester.

The courses in Geology are primarily electives for the members of the Senior class. Only upon the permission of the instructor and the class officer, will others be allowed to elect the subject.

III. CHEMISTRY

PROFESSOR CLARK

MR. COX AND MR. CHEEK, Assistants

There is a special deposit of two dollars for each student. This sum is partially to compensate the department for breakage of apparatus. Settlement is made at the end of the college year or at discontinuance of work.

SPECIFIC APPLICATIONS OF CHEMISTRY TO AGRICULTURE, INDUSTRY
AND MEDICINE

The work in chemistry is adapted to the specific needs of the student. Specialization may begin after the completion of the first year courses. For instance, particular attention is given to the student who wishes information in agricultural chemistry, or other specific application of chemical science. If the student indicates his choice early in his first year, direction can be given to the special work before the end of that year.

30a General Chemistry

The elements of general inorganic chemistry are studied through experimental lectures, laboratory work and recitations. The laboratory method of instruction is emphasized. A fair number of quantitative experiments are assigned. Three hours, first semester.

30b General Chemistry

The aim of this course is to complete the non-metals; and to proceed with the study of the metals. Three hours, second semester.

Instruction in general chemistry is carried on according to modern practice. Students are referred to the sources for their information as frequently as possible. A considerable number of text books of reference are available for supplementary work.

31a Inorganic Preparations

Prerequisite 30b. The student is required to study many methods of practical importance, dealing with the preparation and subsequent study of pure chemical compounds. As far as possible the original materials are impure native products. The work is intended to direct the student's mind and his reading in the direction of industrial operations related to chemistry. Three hours, first semester.

32b Qualitative Analysis

Prerequisite 31a. This is essentially a laboratory course, comprising a systematic study of basic and acid forming elements and compounds. At the beginning of the semester about twelve recitation periods are occupied in the study of advanced ideas concerning theories of solutions and of their application to qualitative analysis. During the remaining portion of the semester one hour each week is devoted to detailed review of the laboratory work and to further

study of theories relating to analytical operations. Three hours, second semester.

33a *Quantitative Analysis*

Prerequisite 32b. This course is intended to familiarize the student with elementary chemical analysis from a quantitative point of view. The gravimetric process will occupy the whole of the time. Three hours, first semester.

33b *Quantitative Analysis*

Continuing the work of 33a. Volumetric analysis will receive attention. Three hours, second semester.

34a *Water Analysis*

Prerequisite 32b. Elective in all courses. Examination of potable water and water intended for industrial purposes. This course will be offered alternately with course 35a. Two hours, first semester.

35a *Gas Analysis*

Prerequisite 32b. Elective in all courses. Chemical examination of atmospheric and artificial gases with reference to proper methods of ventilation. This course will be offered alternately with course 34a. Two hours, first semester.

Further work than is here included in the courses outlined in quantitative analysis is recommended. Special assignments can be made to conform to the needs of individual students.

36a *Organic Chemistry*

Prerequisite 30b. A systematic study of the compounds of carbon. The course is especially recommended to those contemplating the study of medicine. Three hours, first semester.

36b *Organic Chemistry*

Prerequisite 36a. Laboratory exercises in the preparation and study of fundamental organic compounds; recitations once each week. Some progress is made in the qualitative and quantitative examination of compounds. Three hours, second semester.

37b *Photographic Chemistry*

Prerequisite 34b, 230b. Elective in all courses. A course designed to show the theory and practice in photographic operations. The

optical portion will be given by Professor Smith. Two hours, second semester.

IV ENGLISH LANGUAGE AND LITERATURE

PROFESSOR THOMAS

MR. NORRIS, Assistant

The department of English offers courses in English composition and rhetoric, in the historical study of the English language, and in English and American literature. These courses seek to develop a love of literature and a genuine appreciation of the scholarly spirit in literary work. The English classes are planned to encourage a student to read for himself, to give him broader views of the range of literary study, and to enable him to pursue specifically the study of some particular literary topic or period, or to follow in detail the development of some special category of literature.

60a *General Composition*

A practical course in writing, intended to teach correctness and clearness of expression, and to give practice in each of the prose forms. Semi-weekly compositions. Regular appointments for individual criticism. Analysis of prose specimens. Impromptu writing in class occasionally. Outside readings in the works of standard writers.

All new students are expected to take this course unless there should be the clearest evidence of previous special preparation and attainment in the subject. Work done in English composition for entrance credit is in no way an equivalent of this course. Three hours, first semester, Freshman year. Required of all students.

60b *Composition and Literature*

Continuation one recitation a week of 60a. Two recitations a week given to the study of American poetry. Three hours, second semester. Freshman year. Required of all students.

63a *General History of English Literature from the beginnings through the period of classicism. (18th century.)*

This course (in connection with 63b) gives a survey of the development of English literature from *Beowulf* to Tennyson. The work consists of the study of representative classics with lectures explanatory of their historical connection. Each student will also be re-

quired to hand in occasional essays and to keep appointments for criticism. Three hours, first semester, Sophomore year. Required of students in Courses A and B.

63b *General History of English Literature from the beginning of Romanticism to the present time*

Continuation of 63a. Three hours, second semester, Sophomore year. Required of students in Courses A and B.

66a *Public Speaking*

The construction and the delivery of speeches. Study of the various types of orations with analysis of representative examples. Three hours, first semester, Junior-Senior elective. Given 1913-14; alternates with 66b.

66b *Argumentation and Debate*

The principles of argumentation, regular practice in debating, and submission of briefs and written arguments. Three hours, first semester, Junior-Senior elective. Given in 1912-1913; alternates with 66a.

67a *Shakespeare and his Contemporaries*

First half of the semester given to Shakespeare's predecessors and contemporaries, and second half to Shakespeare himself. Three hours, second semester, Junior elective.

67b *English Poetry of the Nineteenth Century*

Lectures on the poetry of the period. Reading and study of the poems of Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, and the Pre-Raphaelites. Three hours, first semester, Senior elective.

68b *Restoration and Eighteenth Century Literature*

Discussion of the leading poets and prose-writers from Dryden to Burns. Three hours, second semester, Junior-Senior elective. Given 1912-1913; alternates with 69b.

69b *English Prose of the Nineteenth Century*

Lectures on the men and movements of the period. Study of the chief prose-writers of the Romantic and Victorian eras. Three hours, second semester, Junior-Senior elective. Given 1913-14; alternates with 68b.

70a Old English

Study of the grammar and of selections of Old English prose and poetry. Three hours, first semester. A graduate course, but open in special cases to a few Seniors.

70b Advanced Old English

A continuation of 70a. A study of Beowulf with attention to the philological side. Three hours, second semester.

V. GREEK

PROFESSOR REDD

In this department the aim is to enable the student to acquire such a knowledge of the language as is essential to a liberal classical education. Stress is placed not only upon a careful study of the Greek language, its forms and syntax, but also upon the ancient Greek literature, its unity and originality, and the development, relationship and characteristics of its successive periods. Written examinations on Greek history and other subjects connected with Greek life are held each month.

90a,b Elementary Course

This course is offered to those students who have not studied Greek, and yet desire to take the classical course. College credit is given for this course in the case of students who offer the full number of units required for admission to college but have not studied Greek. Three hours, both semesters.

91a Selected Speeches of Lysias

The grammar is carefully reviewed and the general principles of syntax are applied to class reading. Weekly exercises in translating from English into Greek, and monthly examinations in Greek history. Three hours, first semester.

91b Homer's Iliad or Odyssey

Grammar, prose composition and history continued. Seymour's *Language and Verse of Homer*; Jebb's *Introduction to Homer*. Three hours, second semester.

93a Plato's Apology and Crito

Syntax, prose composition and history continued. A brief sketch of Greek Philosophy. Three hours, first semester.

93b *Demosthenes' On the Crown*

Syntax, prose composition and history continued. A study of the Attic orators, and of the social and political life of the Greeks. Three hours, second semester.

95a *Euripides*

A study of Greek drama and its influence. Jebb's *Primer of Literature*. Three hours, first semester, Junior elective.

95b *Sophocles*

Metrical analysis of the drama read. Haigh's *Attic Theatre*. Study of Greek drama continued. Three hours, second semester, Junior elective.

97a *Aeschylus*

With metrical analysis. Moulton's *Ancient Classical Drama*. Three hours, first semester, Senior elective.

97b *Thucydides*

A study of the development of Greek history. Three hours, second semester, Senior elective.

99a,b *Greek Literature*

A study of the masterpieces of Greek literature in English versions. This course will enable the student to appreciate the influence of Greek thought, Greek culture and Greek ideals upon the best in modern literature. A knowledge of the Greek language is not essential. Three hours, Senior elective.

100a,b *New Testament Greek*

This course is offered especially to those students who expect to prosecute the study further in theological seminaries. Three hours, Senior elective.

VI. HISTORY

PROFESSOR FLIPPIN

112a *Mediaeval European History*

The history of Europe from the fall of Rome to the Protestant Reformation, with special emphasis on the development of the nations of western Europe after the disruption of the Carolingian Empire. Much attention is devoted to the institutions of the Middle Ages. Three hours, first semester, Sophomore year.

113a *The Renaissance and the Protestant Reformation*

A study of the revival of learning in the later Middle Ages and of the causes and effects of the Reformation. Three hours, first semester, Junior and Senior elective. Given 1913-14, alternating with 117a.

113b *The French Revolution and the Napoleonic Era*

A careful study is made of the fundamental causes and of the far reaching results of the Revolution. The effect of the imperial policy of Napoleon, both upon France and upon Europe is emphasized. Three hours, first semester, Junior-Senior elective. Given 1913-14, alternating with 116a.

114b *Europe in the Nineteenth Century*

An account of the formation of the present states of Europe with some attention to their governments. The relation of these with one another and with both the Near East and the Far East will be shown. Three hours, second semester, Junior-Senior elective. Given 1913-14, alternating with 116b.

116a,b *History of the United States*

The history of the United States from the period of colonization to the present. Special attention is given to the causes of the Revolutionary War, to the adoption of the Federal Constitution, to political parties and to the causes and results of the Civil War. Three hours, throughout the year, Junior-Senior elective. Alternates with 113b and 114b.

117a *Constitutional History of England*

A study of the development of the political institutions of England from the Anglo-Saxon period to modern times. Emphasis is placed upon the prerogatives of the sovereign, the growth of Parliament, and the evolution of the cabinet. Three hours, first semester, Junior-Senior elective. Alternates with 113a.

VII. LATIN

PROFESSOR CHEEK

130a *Selected Letters of Cicero and Cicero's De Amicitia*

In connection with the authors read there will be weekly exercises in prose composition and periodical examinations in Roman History.

Three hours, first semester, Freshman year. Required of all students in Courses A and B.

130b *Horace's Odes or Satires*

Prose composition and Roman History as in 130a. Three hours, second semester, Freshman year. Required of all students in Courses A and B.

135a *Livy and the Agricola of Tacitus*

Prose composition and Roman History as in 130a. Three hours, first semester, Sophomore year. Required of students in Course A. Elective in Course B.

135b *Andria and Heauton Timorumenos of Terence*

Prose composition and Roman History as in 135a. Three hours, second semester, Sophomore year. Required of students in Course A. Elective in Course B.

140a *Annals of Tacitus and Satires of Juvenal*

Three hours, first semester, Junior elective for those having completed the Latin of the Freshman and Sophomore years.

140b *Comedies of Plautus*

Three hours, second semester, Junior elective for those having completed the Latin of the Freshman and Sophomore years.

143a *The Ethics of Cicero*

Three hours, first semester, Senior elective for those having completed the Latin of the Freshman, Sophomore and Junior years.

143b *Poetry of the Augustan Age*

Three hours, second semester, Senior elective. Reports to be made on assigned topics.

VIII. MATHEMATICS AND ASTRONOMY

PROFESSOR CROOKS

Courses 150 a and b, are required of every candidate for a degree. All courses offered by the department are open to any student who is prepared to take them, and are so arranged as to meet the needs of the student who is pursuing the study of mathematics merely as a discipline, or who is preparing for graduate work or to enter an engineering profession.

The supply of engineering and astronomical instruments belonging to the department includes transits, levels, compasses, sextants, a six-inch telescope, and other valuable instruments.

150a *Plane and Spherical Trigonometry*

Special emphasis is placed upon the general definitions of the functions, the relations of the functions, the reduction of trigonometric identities, the solution of trigonometric equations, and the development of formulae. Much time is devoted to the solution of both plane and spherical triangles. Four hours, first semester. Required of all Freshmen.

150b *Algebra*

The subjects treated are undetermined coefficients, the binomial theorem for negative and fractional exponents, logarithms with applications, permutations and combinations, convergency of series, determinants, the theory of equations and the solution of numerical equations. Four hours, second semester. Required of all Freshmen.

152a *Plane Analytic Geometry*

The course begins with the construction of many curves from their equations in order that the relation between the curve and its equation and the possibility of studying loci by means of their equations may be evident from the first. This is followed by a study of the straight line, the circle, and the conic sections, together with the solution of numerous exercises. The aim is to familiarize the student with the analytic method and its use in the discovery and demonstration of geometric properties of loci. Three hours, first semester. Required of students in Course C. Elective for other students.

152b *Analytic Geometry*

A continuation of 152a. Transcendental curves and equations, parametric equations of loci, empirical equations, problems on loci, the general equation of the second degree. Coordinates in space, the plane, the straight line in space, the shape of particular conicoids, transformation of coordinates, quadric surfaces and the general equation of the second degree in three variables. Three hours, second semester.

154a *Advanced Algebra*

Convergence of infinite series, operations with infinite series, exponential and logarithmic series, determinants and theory of equa-

tions. Three hours, first semester. Required of students in Course C. Elective for other students.

155b *Calculus*

Differentiation of functions of a single variable, successive differentiation, expansion of functions, maxima and minima, indeterminate forms, differentiation of functions of several variables, tangents and normals. Partial differentiation, asymptotes, contact and curvature, envelopes, and methods of integration. Integration a process of summation, definite integrals, rectification of curves, areas, volumes, surfaces, successive integration. Required of all students in Course C. Elective for other students who have completed 150-152. Three hours, second semester.

156a,b *Advanced Calculus*

The general theorems of Leibnitz, Taylor, and Euler; and general methods of integration, definite integrals, and multiple integrals, with geometric applications. Three hours throughout the year.

157a *Analytic Geometry of Two Dimensions*

An advanced course which must be preceded by 153-156. Three hours, first semester.

158b *Differential Equations*

Ordinary Differential Equations. Three hours, second semester.

163a *Astronomy*

This course is mainly descriptive and historical. Its purpose is to give the student a knowledge of the facts and principles of the science and make him acquainted with the instruments and methods by which they have been discovered and deduced. The recitations are supplemented by observations of the heavenly bodies. The student is also taught how to locate the principal stars and constellations. A knowledge of physics and trigonometry is essential. Three hours, first semester. Junior-Senior elective.

164b *Surveying*

Heights and distances; computation of areas; plotting and mapping; compass and transit surveying; laying out and dividing land; leveling; topographical surveying. Three hours, second semester, with necessary field work. Junior and Senior elective.

IX. MODERN LANGUAGES AND LITERATURES.

PROFESSOR CLAASSEN, MR. COLLINS

In the Modern Language reading-room adjoining the department recitation room in East Breckinridge Hall, the student will find ample facilities for investigative work. Large additions of valuable reference works have been imported during the past years. The reading-room is also equipped with European weekly and monthly periodicals, both philological and literary. The student is thus afforded excellent opportunity to supplement his studies by putting himself in touch with the march of modern European thought.

GERMAN

The purpose of the work of the first year is to secure a thorough knowledge of the fundamental principles of the German language and to acquire an extended vocabulary. In order that the student may acquire the ability to understand spoken German and to *think* in German, the work, in the classroom is carried on in German, as far as practicable, and prose compositions, consisting largely of reproduction of things read in German, is made an important feature of the work.

After the first year the aim is to familiarize students with the best German literature, and at the same time constantly to afford practice in the oral and written acquisition of the language. In the second year the work is largely carried on in German, and after the second year entirely so.

A German club, maintained by students of classes beyond the first year, and meeting every three weeks, assists students in acquiring proficiency in the use of colloquial German.

If any course in German is elected, it must be continued throughout the year.

170a *Elementary German*

German Grammar completed. Study of forms and composition. Conversation based on Newson's First German Book (the new edition of Alge's *Leitfaden*) in connection with Hoelzel's charts on the seasons. Completion of the first two charts. Reader (Herein) begun. First semester, four hours.

170b *Elementary German*

Reader completed. Short modern stories such as Storm's *Immensee*, etc., and composition as well as conversation based on them. Alge's *Leitfaden* completed. Second semester, four hours.

171a *Intermediate German*

Reading of some modern prose such as Max Muller's *Deutsche Liebe* and of some other modern stories with composition. Conversation based on Newson's German Reader (the second part of Alge's *Leitfaden*) and Hoelzel's charts. Adapted and original composition and grammar exercises. First semester, three hours.

171b *Introduction to the Dramatists*

Schiller's *Wilhelm Tell* or *Die Jungfrau von Orleans*, and some work of Goethe. Conversation and composition continued as above. Second semester, three hours.

172a

Sudermann, one drama and one novel read in class. Each student should read and review one of his works outside of class. First semester, three hours.

172b

Freytag's *Der Rittmeister von Alt-Rosen*, or Scheffel's *Ekkehard* (abbreviated edition), and Goethe's *Meisterwerke* (Bernhardt). Each student reads and reviews one other work of either Freytag or Scheffel outside of class. Second semester, three hours.

173a

Schiller's *Wallenstein*, the complete trilogy, and portions of Schiller's *Thirty Years' War* having bearing on the drama. Goethe's *Faust*. Part one, begun. First semester, three hours.

173b

Goethe's First Part of *Faust* completed. Brief survey of the Second Part, and also a brief survey of German Literature. Texts: Moore and Keller. Second semester, three hours.

174a

Lessing and the beginning of modern German classical literature. At least two of his dramas are read in class, and other works of his or of this period outside of class. First semester, three hours.

174b

Meisterwerke des Mittelalters. Second semester, three hours.

FRENCH

The purpose of the first year's work is to secure a thorough knowledge of the fundamental principles of the French language and to acquire an extended vocabulary. Thorough drill is given in grammatical forms, in syntax, and in the translation of English into French.

At the end of the first year students should be able to read French with some facility and to translate at sight ordinary modern prose, rendering the text in clear idiomatic English.

For this purpose it will be necessary to read not less than four hundred pages from the works of at least three authors.

In courses 186*a* and *b* masterpieces of Modern French will be read; in courses 187*a* and *b* masterpieces of classical French. Translation will be made only to bring out a clear understanding of the text. A summary of what is read must be written in French.

If any course in French is elected it should be continued throughout the year.

185*a* *Elementary Course*

Fraser and Squair's French Grammar, Part I. Oral and written exercises with reading. Three hours, first semester.

185*b*

Reading from modern prose and reproduction in French of the texts read. Original simple compositions and conversation based on Gemin and Schamanek's *Conversations Francaises sur les Tableaux d'Ed. Hoelzel*. Three hours, second semester.

186*a* *French Prose of the Nineteenth Century*

Rapid reading from modern authors. Review of grammar and composition, based on Bruce's *Grammaire Francaise*. Gemin and Schamanek's *Conversations Francaises*. Three hours, first semester.

186*b*

Modern comedies selected from the works of Labiche, Hugo, Rostand, Augier, Scribe, Sandeau, and others. Reproduction of scenes in narrative form. Grammar and conversation as above. Three hours, second semester.

187*a* *French Literature of the Seventeenth Century*

Moliere and the Classic Comedy. Three comedies are read in class and at least two outside of class. Reports and reviews in French. Three hours, first semester.

187b *The Classic Tragedy*

Corneille and Racine in their respective dramas. Three hours, second semester.

188a *French Literature of the Eighteenth Century*

Voltaire, Diderot, LeSage, Rousseau, Montesquieu, etc. Parallel reading. Reports. Three hours. Alternates with 187 a or b if called for.

188b *The Dawn of the Romantic Period*

Mme. de Stael, Chateaubriand, Lamartine, etc. Rapid reading of chief works. Collateral biographical reading. Three hours. Alternates with 187 a or b if desired.

X. PHILOSOPHY

PRESIDENT HINITT

220b *Psychology*

An elementary course covering the main topics of the subject, sensation, perception, attention, association, reasoning, the self, emotion, instinct, volition, and serving as transition to philosophy. Six hours, second semester.

221b *Introduction to Philosophy*

The problems of philosophy. The main types of philosophical theory, idealism, realism, monism, dualism, rationalism, empiricism, criticism. The philosophical sciences. Three hours, second semester.

222b *Logic*

The laws of thought. The problems, methods and principles of deductive and inductive logic. Three hours, second semester. Elective for Juniors and Seniors.

223b *History of Philosophy*

I. From Thales to Plotinus. II. The rise and fall of Scholasticism. III. The development from Bruno to Nietzsche, with discussions on the philosophical thought and problems of the present. Three hours, second semester. Elective for Seniors and Graduates.

224a,b *Ethics*

An introductory course. Types of ethical theory. Discussion of practical problems. Elective for Seniors.

225b *Modern German Philosophy*

Kant to Hegel. Readings from the three Critiques and other sources. Elective for Seniors and Graduates.

226b Contemporary Problems in Philosophy

Readings and discussions. Elective for Seniors and Graduates.

227b The Philosophy of Religion

The idea of God. The three great theistic religions. The theistic proof. Limits of theism. The ideal of religion. Three hours, second semester. Required of Seniors.

XI. PHYSICS

PROFESSOR SMITH

MR. BOYD AND MR. WOOD, ASSISTANTS

Students will be required to begin their college work in physics with Course 230, unless they have completed an elementary study of the subject of such extent and character as to enable them to take more advanced work with profit. Only in exceptional cases is college credit given for physics work that has been done in secondary schools.

230a Mechanics and Heat

The laws of motion; properties of matter; mechanics of gases and liquids; the fundamental laws and phenomena of heat; thermometry and calorimetry. Recitations, lectures and laboratory work. Three hours, first semester.

230b Electricity, Sound and Light

Magnetism; static electricity; electric currents; wave motion; the physical basis of music, and the simpler phenomena of light. A continuation of the preceding course. Three hours, second semester.

Courses 234-240 are of a more advanced character than the preceding. About one-half the time is devoted to a set of laboratory experiments illustrative of fundamental principles and suitable for accurate measurement. Students electing these courses are required to have had course 230 or its equivalent. Chemistry should be taken either before or at the same time with these courses.

234a Mechanics and Molecular Physics

A study of uniformly accelerated and simple harmonic motion; rotatory motion; elasticity; surface tension; hydrostatics and hydraulics. Three hours, first semester.

234b Heat

Thermometry; calorimetry; thermal conductivity; the kinetic

theory of gases, and the fundamental laws of thermodynamics. Three hours, second semester.

237a Electricity and Magnetism

Accurate measurements of the principal electric and magnetic quantities, including strength of field, potential difference, resistance, current, capacity, inductance and permeability. A study of the different systems of electrical units and the relation between them. Three hours, first semester.

237b Sound and Light

The theory of wave motion; interference and diffraction of sound and light waves; measurements with the spectrometer, diffraction grating and polariscope. Three hours, second semester.

240a Physical Optics

An advanced lecture and laboratory course devoted to the study of diffraction, interference, polarization, etc., from the standpoint of the wave theory. Three hours, first semester.

241b Electrical Theory

An advanced course of lectures on the recent developments of the subject, including the discharge of electricity through gases, the electron theory and radioactivity. Three hours, second semester.

242a Physical Manipulation

A course for students who expect to become teachers of physics or to take up advanced work in the subject. The course is designed to give the student facility in the preparation of materials and apparatus for the laboratory. Practice is given in the blowing, cutting, drilling, grinding and silvering of glass; the purification of mercury, and in the preparation of various laboratory materials; also in soldering, screw-cutting and elementary lathe work. Two hours, first semester.

243b Photography

See course 37b under Chemistry. Two hours, second semester.

The following courses are specially intended for students who expect to take up the study of engineering, but are recommended for all students in the Scientific Course.

244a,b Theoretical Mechanics

A mathematical course based on Hoskins' *Theoretical Mechanics*.

The methods of calculus are used throughout the course. Three hours, first and second semesters.

245b *Photometry*

A laboratory course supplemented by occasional lectures, involving the determination of candle-power and efficiency of various commercial gas, incandescent and arc lamps. Three-hours, second semester,

246a,b *Direct and Alternating Current Machines*

A study of the fundamental principles of direct and alternating current dynamos and motors, and transformers, with an introduction to their practical operation and testing. Three hours, first and second semesters.

The courses described under Graduate Instruction in Physics, page 97 may also be counted as electives in physics. Candidates for the Master's degree may elect any of the above except Course 230.

XII. POLITICAL ECONOMY AND POLITICAL SCIENCE

PROFESSOR FLIPPIN

250a *Elementary Economics*

The fundamental principles of economics are emphasized. This course is intended as a preparation for the more advanced courses, given in the Senior year. Three hours, first semester, Junior required.

251a *Advanced Economics*

A rather elaborate study of the principles of economics with their practical application to modern industrial conditions. To be supplemented with a course in general economic reading. Three hours, first semester, Senior elective. Alternates with 252a.

252a *Finance and Taxation*

Public revenues and expenditures are studied. The administrative and legislative work in preparing a budget is described. Attention is given to the problem of local, state and federal taxation and to public debts.

The Tariff

The development of the American system of protection and its effect upon domestic industry and international trade. A comparison of the protective and revenue tariffs with free trade. An

account is given of reciprocity agreements. Three hours, first semester, Senior elective. Alternates with 251a.

253b Money and Banking

The origin and principles of money. Monetary history of the leading nations and especially of the United States. The principles of credit and banking. The history of banking in the United States, with a brief account of the banking systems of the more important foreign countries.

Industrial Organization

Different forms of industrial organization such as partnership, joint stock company, corporation pool, trust, and holding company. Public service corporations. Three hours, second semester, Senior elective. Given in 1913-14, alternating with 254b.

254b Labor Problems

A study of the status of labor in the principal industrial nations. Attention is devoted to such subjects as the factory system, labor union, strikes, boycotts, and arbitration, with special reference to the United States.

Transportation

A discussion of the railroad problem in the United States. Rate-making, combination, government ownership and the service of the Interstate Commerce Commission with reference to railroads are some of the topics considered. Also a study of transportation and communication by other means than by steam railroads. Three hours, second semester, Senior elective. Alternates with 253b.

255b Political Science

A general outline of the nature of the state, followed by a study of the rise and growth of political institutions. A careful examination will be made of the organization and actual working of the governments of the United States, England, Germany, France and Switzerland. Three hours, second semester, Junior-Senior elective. Follows course in Constitutional History of England (117a) and is given every second year.

GRADUATE INSTRUCTION

AIMS

It is the chief purpose of the Graduate Department to surround the student with that atmosphere which shall be the means of awakening in him an earnest sympathy with, and devotion to, the cause of the advancement of knowledge. It is at all times the endeavor of those in charge of the graduate work to excite a truly scholarly spirit by means of intimate personal guidance.

METHODS OF INSTRUCTION

The instruction in the Graduate Department is carried on either by means of lectures, class-room, laboratory, or seminar work, courses of investigative reading, original research work, or by various combinations of the foregoing. Class-room courses are supplemented by courses of parallel reading or investigation. Where the greater part of the work must, on account of its peculiar nature, be done by exhaustive reading or personal investigation, such study is continually reviewed by the professor in charge. In every case, the greatest care is taken to make the work, whatever its nature, thorough and scholarly.

LABORATORY AND SEMINAR FACILITIES

In the Graduate Department the College aims to furnish the student with all the necessities for efficient work. Graduate students have, at all times, access to the general library, as well as to the special libraries of the laboratories, seminars and department heads, and are thus enabled to prosecute work of advanced nature under favorable conditions.

GRADUATE COURSES OF INSTRUCTION

I. BIOLOGY

PROFESSOR RAINEY

300 *Comparative Anatomy of the Nervous System*

The gross anatomy and microscopic structure of the central nervous system of the vertebrates, including the study of the brain structure of the perch, necturus, pigeon and sheep, and the structure of the spinal cord in representative forms. A course in general comparative anatomy is a prerequisite.

301 *Advanced Bacteriology*

Investigations in the subject, especially in its relations to sanitary problems and to economic questions.

302 *Biological Theories and Problems*

A review and discussion of current biological questions. Open to Seniors as well as to graduates. One hour a week.

II. CHEMISTRY

PROFESSOR CLARK

For a detailed outline of courses offered in this department the student is referred to the advanced courses under undergraduate instruction, pages 73, 74. The work in industrial chemistry and quantitative analysis is recommended.

310 *Quantitative Analysis*

Work is based on undergraduate courses. The general character of the work will depend on the future plans of the students. Three hours, first and second semesters.

311 *Physical Chemistry*

Prerequisite 32; 230b. This course will be given any year that three or more students present themselves for the work. Lectures, recitation and laboratory work. Three hours, first and second semesters.

312 *Journal Meetings*

Prerequisite 36b. A study of modern chemistry in the making is carried on through direct reports from current journals and chemical literature. One hour, first and second semesters.

313 *Thesis*

Work amounting about to one hundred laboratory periods, pointing to some investigation, the results of which are incorporated in a report or thesis as prescribed on page 68. Second semester.

III. ENGLISH LANGUAGE AND LITERATURE

PROFESSOR THOMAS

The work of graduate students in English is of two kinds; first, work in courses with regular recitations and discussions; and second, the preparation of a thesis involving extended research. The following graduate courses are offered. If the needs of the students demand it, other courses will be added to this list or substituted for some now on the list.

320 *Old English*

A study of the grammar and of selections of Old English prose and poetry. First semester.

321 *Advanced Old English*

A study of *Boewulf*. Reading of the whole poem. Attention to the philological side. Second semester.

322 *Chaucer*

A careful study of selected tales and poems, and of the life and thought of Chaucer's time. First semester.

323 *Eighteenth Century Prose*

The work of Richardson, Fielding, Smollett, Sterne, Addison, Steele, Swift, Sheridan, Goldsmith, Johnson, and Burke. Second semester.

IV. GERMANIC PHILOLOGY

PROFESSOR CLAASSEN

It is the aim of this department to acquaint the student with philological methods. For this purpose a number of courses on special periods are offered both in literature and linguistics. Since the courses alternate, the whole of the candidate's attention is concentrated upon the study of a single period. He is expected to carry on independent investigative work along the line of the subject under consideration.

LITERATURE

331 *Pseudo-Classicism and the Age of Frederick the Great*

Opitz, Gottsched, Gryphius, Klopstock, Wieland. Destruction of Gottschedianism, Lessing. Discovery of classic antiquity; Winckelmann. Lectures. Seminar work. Alternates with 332.

332 *Sturm und Drang*

Klinger, Buerger, Individualism. The great classics. Herder, Kant, Schiller and Goethe. The classics of criticism are consulted and reports made at the meetings of the Seminar. Alternates with 330, 331.

LINGUISTICS

333 *Gothic*

Introduction to special work in comparative philology. Braune's *Gotische Grammatik*. Hahn's *Ulfilas*. Seminar Course. Alternates with 334, 335.

334 *Old High German*

Braune's *Althochdeutsche Grammatik*, Schauffler's *Althochdeutsche Litteratur*. Paul's *Grundriss*, etc. Seminar course. Alternates with 333, 335.

335 *Middle High German*

Paul's *Mittelhochdeutsch Grammatik*, Golther's *Der Nibelungen Not*, Wilmaun's *Walter von der Vogelweide*, Marold's *Auswahl aus dem höfischen Epos*. Seminar course. Alternates with 333, 334.

V. GREEK

PROFESSOR REDD

340 For admission to this course the completion of the undergraduate course in the Centre College or an equivalent, is necessary. There will be a thorough study of the syntax of mood and tense and advanced form composition. Readings from the Attic orators, the dramatists, and Thucydides. The selections will be varied from year to year. Greek history and literature. The private and public life of the Greeks. History of Athenian policies. Origin and development of the Greek drama. Metre and rhythm. Archæology. Every effort will be made to assist the student in his private studies.

VI. HISTORY

PROFESSOR FLIPPIN

35 *The French Revolution*

This course is devoted to a very careful study of the period with special attention to the accessible source material. Research work and reports. Three hours, first semester. Given 1913-14, Alternates with 351.

351 *England in the Seventeenth Century*

Special emphasis is placed upon the issues between the King and Parliament, upon the Commonwealth, and upon the Revolution of 1688. Research work and reports. Three hours, first semester, alternates with 350.

352 *American Constitutional Law*

A thorough study of the development which made possible the Federal Constitution. Attention will also be devoted to the controversies over the interpretations of the constitution and their importance. Research work and reports. Three hours, second semester. given 1913-14, alternates with 353.

353 *Party Government in the United States*

This course furnishes an account of the political parties in the United States with particular reference to their influence upon the government. Three hours, second semester, Alternates with 352.

VII. LATIN

PROFESSOR CHEEK

360 *Livy*

Three hours. Parallel reading from Tacitus.

361 *Letters of Cicero*

Three hours. Parallel reading from Pliny the Younger.

362 *Satires of Horace*

Three hours. Parallel reading from Juvenal.

363 *Poetry of the Augustine Age*

Three hours. Reports to be made on assigned topics.

364 *Prose of the Silver Age*

Three hours. Reports to be made on assigned topics.

365 *Comedies of Plautus*

Three hours. Parallel reading from Terence.

366 *Roman Literature*

Through the year. Written examinations.

VIII. MATHEMATICS

PROFESSOR CROOKS

370 *Calculus*

An advanced course based upon Williamson's *Calculus* and dealing principally with partial derivatives and multiple integrals with geometric applications.

371 *Differential Equations*

Ordinary and Partial Differential Equations. The work is based upon Page's *Ordinary Differential Equations* and Murray's *Differential Equations*.

372 *Theory of Equations*

Based on Burnside and Panton's *Theory of Equations*.

IX. PHILOSOPHY

PRESIDENT HINITT

390 *Systematic Psychology*

An advanced course; lectures, reading, essays, and experimental illustrations. Reference will be made to the standard works on Psychology, both descriptive and experimental. A reading knowledge of German is necessary to the course.

391 *Ethical Theory*

The main problems and types of ethics as presented in Martineau's *Types of Ethical Theory*, Sidgwick's *Methods of Ethics* and Greene's *Prolegomena to Ethics*.

392 *Logical Theory*

An examination of recent discussions and developments in logic, with special reference to the metaphysical applications.

393 *British Philosophy*

Locke, Berkeley and Hume. Readings from the principal works.

394 *The Critical Philosophy of Kant*

Lectures, discussions and readings. *The Critique of Pure Reason*, Max Muller's translation; Paulson's *Kant*. Caird's *The Critical Philosophy of Kant*.

395 *Post-Kantan Idealism*

Lectures and textual study.

396 *Philosophy as Reflected in English Literature*

Wordsworth, Carlyle, Emerson, Tennyson, Browning.

397 *Contemporary Philosophy*

Readings in the recent literature of Theism, Naturalism and Pragmatism.

X. PHYSICS

PROFESSOR SMITH

Graduate students may elect any of the courses described on pages 88 and 89, all of which may be counted as work for the Master's degree except 230. The following courses are also offered for graduate students:

400 *Repetition of Classical Experiments*

This course is a preparation for the work of independent research and consists in the repetition by the student of classical experiments or recent pieces of investigation.

401 *Research*

Open to students who have had sufficient preliminary training and give evidence of ability to do investigative work.

XI. POLITICAL ECONOMY AND POLITICAL SCIENCE

PROFESSOR FLIPPIN

410 *Municipal Administration*

Municipal organization, politics, elections, finance, public works, education, charities and social problems, with special reference to the United States. Research work and reports. Three hours, first semester. Given in 1913-14, alternating with 411.

411 *Government Ownership*

A comparison of American and European conditions with reference to government ownership, with particular emphasis upon the extent

of municipal, state and federal ownership of public utilities in the United States. Research work and reports. Three hours, first semester. Alternates with 410.

412 *Insurance*

History and theory of insurance in general with special attention to life insurance, with forms of organization, rates, contracts, and dividends; and to fire insurance with its various contracts, risks and reserves. Research work and reports. Three hours, second semester. Given in 1913-14. Alternates with 413.

413 *Trade Unionism*

Trade unionism in general, followed by a more thorough study of the essentials, principles and methods of the labor movement in the United States. Research work and reports. Three hours, second semester. Alternates with 412.

PRIZEMEN, 1911-12

THE ORMOND BEATTY ALUMNI PRIZE

John L. Dorsey.....Henderson, Ky.

THE HENRY BARRET BOYLE LATIN PRIZE

Thomas Hunton Rogers.....Danville, Ky.

THE ORATORICAL PRIZE

Simeon King Swope.....Danville, Ky.

THE WILLIAM ERNST PRIZE

John L. Dorsey.....Henderson, Ky.

Arthur Rogers Ginn.....Ashland, Ky.

Simeon King Swope.....Danville, Ky.

HONOR SCHOLARSHIPS

Sophomore: Alexander McEwan Todd.....Frankfort, Ky.

Junior: William Barnett Guerrant.....Danville, Ky.

Robert Stuart TateDanville, Ky.

Freshman: Richard William Dunlap.....Danville, Ky.

VALEDICTORIAN

Robert Dorsey AndrewsMemphis, Tenn.

DEGREES CONFERRED IN JUNE, 1912

BACHELOR OF ARTS

Robert Dorsey Andrews	Memphis, Tenn.
William Logan Caldwell	Danville
Richard John Dosker	Louisville
John L. Dorsey	Henderson
Charles Allen Herndon	Frankfort
John Craig Irvine	Corydon, Ind.
William Crooks McClure	Danville
Charles H. Nichols	Fulton
Edward Fretwell Prichard	Paris
Edgar Mitchell Pogue	Lexington
James Karr Ramsey	Madisonville
Arthur William Timony	Danville
Henry Archibald Webster	Danville

BACHELOR OF SCIENCE

Edgar Fleming Bates	Danville
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MASTER OF ARTS

Harvey Edward Martin.....	Scio, O.
Horace Withers Reid	Danville
William Robert Todd.....	Columbia
Caldwell Reghell Walker.....	Somerset

DOCTOR OF DIVINITY

John VanLear.....	Little Rock, Ark.
Jesse R. Ziegler	Frankfort

DOCTOR OF LAWS

Benjamin L. Hobson.....	Chicago, Ill.
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STUDENTS IN THE CENTRE COLLEGE

GRADUATE STUDENTS

Gyfford Davidson Collins..... Sheffield, Ala.
 A. B. Centre College, 1909
 GERMAN, FRENCH

Robert Bentley WilsonStovall, N. C.
 A. B. Hampden-Sidney, 1909
 CHEMISTRY

UNDERGRADUATE STUDENTS

Senior Class

Ninety-six Credits.

Clark, Lucius Lehman.....Columbia, Tenn.
 Cox, S. FrankTrenton
 Dyer, Cromwell Adair.....Corsicana, Tex.
 Ginn, Arthur RogersAshland
 Guerrant, William BarnettDanville
 Hopper, George Dunlop.....Stanford
 Raworth, Harry Newton.....Vicksburg, Miss.
 Rue, George Welsh.....Danville
 Tate, Robert Stuart.....Danville

Junior Class

Sixty-four Credits

Ardery, Sidney Smith.....Paris
 Arnold, Charles Baldwin.....Danville
 Cheek, Francis JacobsDanville
 Craig, Willis Green.....Danville
 Gilcher, Ralph J.....Danville
 Gilcher, RudolphDanville
 Hopper, JosephStanford
 McClaskey, Henry Morrison.....Boston
 McDowell, Samuel Booker.....Danville

Moore, Henry Coleman.....	Hopkinsville
Newman, William Lee.....	Boston
Norris, James Thornton.....	Augusta
Pepper, Roy Irvine.....	Paris
Pidgeon, Philip,	Memphis, Tenn.
Prichard, Thomas Taylor.....	Paris
Ramsey, George LeConte	Raleigh, N. C.
Rogers, Thomas Hunton.....	Danville
Stevenson, William Forrest.....	Fort Thomas
Swope, Simeon King	Danville
Todd, Alexander McEwan.....	Frankfort
Turner, George F.....	Hatcher
Walker, Gabe Caldwell*.....	Danville
Wood Richard Veech.....	Louisville

Sophomore Class

Thirty-four Credits

Beatty, Emile	Beattyville
Boggs, Samuel Davies.....	Danville
Brownlow, Girard Polk	Columbia, Tenn.
Byron, Carl James.....	Ilion, N. Y.
Coleman, Davis Hunter.....	Harrodsburg
Cotton, John Vincent.....	Louisville
Dunlap, Richard William,	Danville
Jessee, Robert Duff.....	Pleasureville
Lassing, Robert B.....	Newport
Lee, Josiah Ellis.....	Covington
McDowell, Charles Rice.....	Danville
McDowell, Miles Sanders.....	Danville
McDowell, Robert Briggs.....	Danville
Miller, William Henry.....	Morganfield
Newton, John Hyne.....	Williamstown
Peters, James Isham	Mackville
Price, John Theobald	Paris
Salmon, John Leo	Earlington

Freshman Class

Allen, Thomas Benjamin.....	Maysville
Bedinger, Daniel Waterhouse.....	Richwood

* Deceased.

Benika, John R.....	Louisville
Bethurum, John Jacob W.....	Somerset
Blakey, Hubert	Beattyville
Boyd, Paul B.....	Louisville
Boyer, Sherman Herron.....	Finleyville, Pa.
Brown, Leslie Rollison	Evansville, Ind.
Cabell, Charles Francis	Oklahoma City, Okla.
Chesnut, Samuel David.....	Trenton
Chism, Sanuel Baker	Memphis, Tenn.
Cloyd, John Marshall.....	Campbellsville
Collins, Harry Lee.....	Umatilla, Fla.
Crockett, Charles Colliver.....	Sharpsburg
Dunn, Robert Burdette.....	Danville
Dyer, James Mason.....	Corsicana, Tex.
Ely, Albert E.....	Oakland, Md.
Follin, Marion Virgil.....	Bowling Green
Frank, Arthur J.....	Danville
Gardner, James Logan, Jr.....	Louisville
Garrison, Henry Clay, Jr.....	Danville
Hann, Edmund Lyne.....	Dallas, Tex.
Hughes, Paul Jones	Columbia.
Jones, Creel Brinkerhoff.....	Louisville
Jones, Daniel William	St. Louis, Mo.
Lewis, Thomas Kirk.....	Louisville
Mahan, James Slaughter.....	Danville
Mahan, Walter Basil.....	Denton, Tex.
Maratta, Allen	Lynn, Mass.
Polk, Maurice Wooldridge.....	Versailles
Ralston, Craig	Middlesborough
Ramsey, Samuel McTyeire.....	Memphis, Tenn.
Roseberry, Hiram Montgomery.....	Paris
Sims, Lee	Harrodsburg
Sweets, William McDowell.....	Louisville
Thomson, Daniel Duke.....	Louisville
Turley, Leonard Johnson.....	Owensboro
Turley, Thomas Jefferson.....	Owensboro
Van Sant, Harold Henderson.....	Ashland
White, John Faulkner.....	Columbia, Tenn.

Wilson, George Beall	Lebanon
Wiseman, Gavin E	Danville
Wolf, Joseph	Danville

NECROLOGY

- 1848—James Marshall Mayes, A. B., 1912.
- 1849—John Cripps Wickliffe, A. B., January 3, 1913.
- 1853—John Bodine Owsley, A. B., March 15, 1912.
- 1855—Thomas Porter Barbour, A. B., March 12, 1912.
 John Green Barkley, December 22, 1912
 Camillus Wirt Metcalf, A. B., November 6, 1912.
- 1857—Enoch Edwin McKay, A. B., January 17, 1913.
 James Newton Prather, July 1912.
- 1858—William Owsley Goodloe, A. B., December 20, 1912.
- 1859—Joseph Morgan Withers, July 12, 1912.
- 1863—William Henry Weedin, A. B., August 18, 1912.
- 1866—John Wesley Talbot, April, 1912.
- 1867—Joseph Leonard Claybrook, January 11, 1913.
 George Whitfield McElroy, September 11, 1912.
 John Green Weir, April 30, 1912.
- 1871—John Tenfleow Cotton, November 28, 1912.
- 1878—Nathaniel Brown Russell, June 1912.
- 1881—William McDanald Shaw, A. B., November 27, 1912.
 Charles Anderson Sutfield, May 8, 1912.
- 1882—David Thornton Edwards, A. B., March 22, 1912.
- 1891—James Murray Boreing, June 22, 1912.
- 1892—James Morris Guthrie, May 16, 1912.
- 1894—Morrison Breckinridge, April 10, 1912.
 William Edward Parker, June 13, 1912.
- 1895—Robert Charles Wickliffe, A. B., June 11, 1912.
- 1896—Pleasant Joseph Faulconer, March 26, 1912.
- 1897—Leslie Horce Hudson, A. B., April 5, 1912.
- 1900—William Faunt Warfield, August 21, 1912.
- 1903—Jack Downs Harding, December 10, 1912.
- 1914—Gabriel Caldwell Walker, November 25, 1912.

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